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Databases for Environmental Analysis:

Government of Canada



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Canada

Statistique
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Canada

Canada

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Statistics Canada
National Accounts and Environment Division
System of National Accounts

Environment Canada
Environmental Information Systems Division
State of the Environment Reporting

Databases for Environmental Analysis: Government of Canada

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Preface

The National Accounts and Environment Division of Statistics Canada and the State of the Environment Reporting (SOE) organization of Environment Canada have worked together to develop this inventory of federally held databases of potential use in environmental reporting. This inventory is one component of the Environmental Information System (EIS) developed at Statistics Canada.

This volume combines, into one document, updated and expanded versions of the database descriptions presented in three initial reports (Keddy and McRae, 1989; McRae, 1990; Statistics Canada, 1990a). It provides an inventory of databases representing diverse sources of environmental information available for application in state of the environment reporting.

Comments regarding this report are invited. Readers are further encouraged to contribute and/or identify relevant data holdings that may have been missed. Please refer to the Environmental Database Information Form provided in Section 7.1.

Acknowledgements

This document is based on research conducted by Cathy Keddy, Consulting Ecologist, Murray Cameron, Statistics Canada and Terence McRae, Environment Canada. Mr. Cameron edited and prepared this report.

Many individuals contributed to this report. We appreciate the assistance of all the database managers, many of whom are listed as contacts in the database descriptions, who helped to ensure the thoroughness of this database inventory. Thanks also to those who provided contact names that facilitated the inventory of large departments. We also acknowledge Hélène Trépanier of the National Accounts and Environment Division, Statistics Canada, for her assistance and guidance in translating the database descriptions.

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Ottawa, Ontario
K1A 0T6
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State of the Environment Reporting
Environment Canada
Ottawa, Ontario
K1A 0H3
(819) 953-1454 Fax: (819) 953-3972

1. Introduction

There has been a growing recognition in recent years of the importance of periodic analysis and reporting of environmental conditions and trends for development of policies that are environmentally sound. Only with reliable information about the state of the environment, and the processes that contribute to environmental conditions, can government, business institutions and private citizens respond appropriately.

The most recent efforts by the Government of Canada to provide this comprehensive environmental picture began in the early 1980's as a cooperative effort involving Statistics Canada and Environment Canada. A first national *State of the Environment Report for Canada* (Environment Canada and Statistics Canada, 1986) was prepared jointly. Statistics Canada also released a second edition of the statistical compendium, *Human Activity and the Environment* (Statistics Canada, 1986). Through these projects, the Departments realized that effective state of the environment reporting required extensive knowledge about sources of environmental information. Therefore, after the release of the reports in 1986, state of the environment reporting entered a new phase that recognized the need for the systematic development of new environmental information and the means to better exploit the information that already existed. This phase has seen the publication of the third edition of *Human Activity and the Environment, 1991* (Statistics Canada, 1991) and the second state of the environment report *The State of Canada's Environment* (Government of Canada, 1991).

This publication presents an inventory of Government of Canada databases of potential use in environmental reporting. The inventory is a meta-database, that is, a database of databases, and forms the content of the Database Reference System (DBRS), one component of Statistics Canada's Environmental Information System. This publication presents the content of the DBRS as of early 1992.

The Database Reference System documents and facilitates access to information on available federal government environmental databases. The development of the DBRS has involved the participation of many federal agencies. Databases of both regional and national geographic coverage are included. Regularly updated databases where temporal trends can be examined are considered to be of most value, but others have also been included as they can be useful in providing baseline data against which future data can be compared. Databases stored in machine readable format, in paper files or in any other formats are included.

Over the long term, the DBRS has the potential to play a catalytic role in stimulating action towards environmental protection by encouraging cooperation among database managers, by identifying gaps in information for critical environmental indicators, by highlighting needs for critical monitoring, and by providing a model for environmental database organization for other jurisdictions.

Since the early 1980's there has been increased use of socio-economic statistics for environmental analysis. Socio-economic data have been demonstrated in both Canada and other countries, to be invaluable in the assessment of human activities which place stress on the environment. Therefore not all of the databases included in the DBRS are concerned with strictly environmental phenomena as measured by biologists or ecologists. Databases such as the Census of Population can be used to analyze sources of environmental stress and the dependence on natural resources, including the exposure to stresses imposed by the environment. A socio-economic focus puts environmental issues into a "real world" perspective since there are many economic activities competing for environmental resources. Socio-economic information combined with environmental factors begin to explain relationships about the environment and the use of its resources. Understanding these interrelationships is essential in assessing the sources of many environmental problems.

The DBRS is also available on the diskette in the back of this publication. The system provides the user with the ability to sort and search through the database descriptions as well as to direct output to paper, terminal or diskette.

2. Background

As noted earlier, this publication is a compilation of the contents of the Database Reference System. This section gives a broader context for the DBRS within the developing framework of environmental statistics and state of the environment reporting.

2.1 Environmental Information System

Statistics Canada's Environmental Information System (EIS) includes a geographically referenced set of socio-economic and environmental statistics based on Geographic Information System (GIS) technology. The GIS provides the facility to combine socio-economic micro-data collected by Statistics Canada with external environmental data. Information is custom tabulated to suit the specific needs of the researcher. For further information contact the National Accounts and Environment Division.

Another component of the EIS is a collection of statistical tables which present a broad selection of environmentally relevant information. Most of these tables appear in the Statistics Canada publication *Human Activity and the Environment, 1991* (Statistics Canada, 1991). They are being updated as new information becomes available.

2.2 National Accounts and the Environment

To more closely integrate basic economic and environmental data, Statistics Canada is developing several new adjunct components to the System of National Accounts. The plan is to implement a set of four inter-related accounts on natural resources and the environment:

- (i) the natural resource stock accounts will measure quantities and (where market prices exist) values of natural resources;
- (ii) the natural resource flow accounts will provide sectoral detail on the supply and disposition of natural resources in quantity and value;
- (iii) the waste and pollutant output accounts will measure the generation of unwanted by-products by sector, and
- (iv) the environmental expenditure accounts will present sectoral detail on expenditure for environmental protection.

2.3 State of the Environment Reporting

The mission for Environment Canada's State of the Environment Reporting organization is to provide credible and comprehensive environmental information, linked with economic considerations, to help Canadians make informed choices towards sustainable development. Environment Canada has teamed with Statistics Canada to inventory sources of available and accessible federal environmental information for application in state of the environment reporting. Information is a key building block to accomplish the mission; several initiatives of the SOE Reporting organization profit from this product.

Available databases are used to build national environmental indicators which measure the status, trends, environmental conditions and progress toward sustainable development. Information extracted from environmental databases is analyzed for state of the environment reports, as well as for monitoring, assessing resources at risk, determining ecosystem response and evaluating the effects of major ecosystem disruptions. This organization is building baseline state of the environment information which can be analyzed and presented in an ecological framework; geographic information systems constitute one of our tools. A national environmental information network is being developed which will be a

distribution mechanism for state of the environment information. The network will contain integrated information to aid with environmentally sensitive decision-making. Metadata will constitute an important element of information.

3. Database Inventory Methods

Departmental database managers were interviewed over the telephone, or solicited by letter, concerning environmental databases for which they were responsible. During each 10 to 20 minute discussion, a standard information form was completed (see Section 7.1) to describe the database(s) identified. In response to the letter solicitation, database managers completed and returned database information forms. Relevant Statistic Canada databases were identified using the Statistical Data Documentation System (Statistics Canada, 1990b). Following editing and standardization, all completed database descriptions were returned to respondents for final verification.

4. Report Organization

The results of the database inventory are summarized by department in Table 1. Over 370 databases were identified in 13 Government of Canada departments and agencies. The four departments with the largest number of databases include: Environment Canada (135); Department of Fisheries and Oceans (87); Statistics Canada (39); and Energy Mines and Resources Canada (33). The database descriptions presented in Section 5.1 are grouped by department/agency, which are ordered alphabetically. For Fisheries and Oceans, databases are arranged by region, from west to east, within the department. Also, all bibliographic, or meta-databases, have been removed from each department/agency listing and are grouped together to form Section 5.2. A keyword index is provided in Section 8, located at the end of the report.

Table 1: Number of Databases by Department*

<i>Department</i>	<i>Number</i>	<i>Pages</i>
Environment Canada	135	41-108
Fisheries and Oceans	87	109-168
Statistics Canada	39	201-222
Energy Mines and Resources Canada	33	27-40
Indian and Northern Affairs Canada	24	183-196
Agriculture Canada	18	9-18
Forestry Canada	16	169-178
Canadian Museum of Nature	9	21-26
Transport Canada	8	223-228
Health and Welfare Canada	5	179-182
Canada Mortgage and Housing Corporation	2	19-20
National Energy Board	2	199-200
Industry, Science and Technology Canada	1	197-198

* meta-databases from all departments are grouped in Section 5.2 (pages 229-242)

The databases are also organized into broad subject matter categories to provide the user with an alternative means of identifying data sets of interest. This listing appears as Section 7.2. The subject matter categories are drawn largely from the Population - Environment - Process Framework which served to organize *Human Activity and the Environment 1991* (Statistics Canada, 1991). The subjects cover elements of population, the socio-economy, natural systems, and the interaction processes occurring among them.

The user of this Report should be aware that the purpose of this inventory is to catalogue and highlight sources of information. If the reader has an interest in a particular database, the person identified as the database contact should be contacted **directly** for additional information.

Users are advised that many of the databases identified are not held for the primary purpose of serving public requests for information. Many serve the needs of specific government programmes, and mechanisms are not in place for the rapid processing and tabulation of large numbers of general data requests.

5. Database Descriptions

Information on each of the databases is presented in a standardized format consisting of eleven items. These items provide a summary of information that allows the user of this publication to evaluate the contents of any given database and determine the value of the data set for a particular application.

The purpose for which the data was collected, the summary list of contents, the geographic and temporal coverage, output format and restrictions and conditions of use will all be important in this regard. This listing also provides the name, address, telephone (and fax) number of a person(s) the user of this report may contact to obtain additional information.

The list of keywords in each database entry is cross referenced to the Keyword Index (Section 8). This list is intended to aid user searches for databases addressing a particular subject. Most entries also identify related documents in print. Users may wish to obtain these documents for additional information on the subject of interest. An additional list of databases organized by broad subject matter headings is also included in this report as Section 7.2.

The following section presents all database descriptions prepared for this report.

Section 5.1

Environmental Database Holdings, by Federal Government Department

AGRICULTURE CANADA

<i>Agriculture Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
AGRICULTURE AND METEOROLOGY (AGMET)	Mr. Denis Chaput (613) 995-5011	10
AGROECOLOGICAL RESOURCE AREAS	Dr. Julian Dumanski (613) 995-5011	10
CANADA SOIL INFORMATION SYSTEM (CANSIS)	Dr. K. Bruce MacDonald (613) 995-5011	11
COMPENDIUM OF FERTILIZER-USE PESTICIDES	Mr. John Ramsay (613) 995-7900	11
CROP RESIDUE SURVEY	Mr. Malcolm Black (306) 780-7011	12
HEAVY METAL CONCENTRATIONS IN FERTILIZERS AND FERTILIZER MATERIALS	Ms. Margaret Kenny (613) 995-7900	12
LAND POTENTIAL FOR AGRICULTURE DATABASE	Ms. Valene Kirkwood (613) 995-5011	13
LEVELS OF PESTICIDE CONTAMINANTS IN FERTILIZERS	Ms. Margaret Kenny (613) 995-7900	13
LIVESTOCK FEEDS CONTAMINANTS DATABASE	Ms. Daintry Gordon (613) 995-7900	14
PEST MANAGEMENT RESEARCH INFORMATION SYSTEM (PRIS)	Dr. Harry Krehm (613) 995-7084	14
PLANT PEST DATABASE	Ms. Johanne Beaulieu (613) 995-7900	15
PRAIRIE RURAL WATER DEVELOPMENT PROGRAM PROJECTS	Mr. George Sephton (306) 780-5104 Mr. Brian Sembaluk (306) 780-6590	15
REGULATORY INFORMATION ON PESTICIDE PRODUCTS	Dr. Frank Cedar (613) 993-4544	16
RESIDUES IN AGRI-FOODS MONITORING PROGRAM	Dr. P.W. Saschenbrecker (613) 995-5433	16
SOIL LANDSCAPE MAPS (SLM) DEGRADATION FILE	Dr. Dick Coote (613) 995-5011	17
SOIL LANDSCAPES OF CANADA	Dr. Jack Shields (613) 995-5011	17
WILDLIFE SERUM BANK	Dr. Stacy Tessaro (306) 975-4071	18

Agriculture and Meteorology (AGMET)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Daily climatic data for over 600 agriculturally relevant monitoring stations across Canada.
- 2b **Purpose of the Database** To make relevant climatic data readily available to agricultural researchers.
- 3a **Name and Address of Responsible Organization** Land Resource Research Centre, Agriculture Canada, Agriculture Canada, Building 74, Central Experimental Farm, Ottawa, Ontario, K1A 0C6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Denis Chaput (613) 995-5011 FAX: (613) 996-0646
- 3c **Access Mechanisms** Through the responsible organization; also available on-line through a private firm, Datacrown, in Ottawa
- 4a **Variables Included (summarized if extensive)**
 - daily records of: air temperature (maximum, minimum); total rainfall; total snowfall; total precipitation; snow on the ground; potential evapotranspiration (calculated)
 - data source (observation, estimate)
 - date
 - station (number, location)
- 4b **Geographic Coverage** National, more than 600 stations across Canada.
- 4c **Data Acquisition Method(s)** Data obtained from the Atmospheric Environment Service.
- 4d **Geographic Unit(s) of Measurement** Individual stations.
- 4e **Period of Record** 1890 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Mainframe computer at CrownTek (Ottawa) with custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None; on-line users must have an account with CrownTek.
- 6 **Price Information** No charge for data from Agriculture Canada; contact Datacrown for their prices.
- 7 **Corresponding Printed Sources** No periodic reports produced; see contact for specific study reports.
- 8 **Languages** The database is only numbers.
- 9 **User Aids Available** A brief format description and update message is available on the LRRC's VAX computer.
- 10 **Keywords** Agriculture; Agrometeorology; Climate; Weather.
- 11 **Additional Information** None.

Agroecological Resource Areas

- 1 **Datafile Name(s)** One for each province.
- 2a **Summary Description of Contents** A database describing the land resource base for crop production and quality in the Prairie Provinces, mapped at a scale of 1:2,000,000.
- 2b **Purpose of the Database** To describe the state of the land resource base for crop production and its quality in terms of managing risk from natural sources.
- 3a **Name and Address of Responsible Organization** Land Resources Research Centre, Agriculture Canada, Building 74, Central Experimental Farm, Ottawa, Ontario, K1A 0C6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Julian Dumanski (613) 995-5011 FAX: (613) 996-0646
- 3c **Access Mechanisms** Through the responsible agency.
- 4a **Variables Included (summarized if extensive)**
 - landform
 - materials (clay, loam, sand)
 - soils
 - annual climate data (temperature, precipitation, radiation, soil moisture, cloud cover)
 - long term climate
 - economic input, output (cost, value of production)
 - land use (crop type, cropping practice)
 - crop yield variability
- 4b **Geographic Coverage** Prairie Provinces (about 200 polygons).
- 4c **Data Acquisition Method(s)** Climate data from the Atmospheric Environment Service, soil data from soil survey programs, land use data from Statistics Canada, crop yield data from modelling.
- 4d **Geographic Unit(s) of Measurement** Polygons mapped at a scale of 1:2,000,000.
- 4e **Period of Record** 1986 - present.
- 4f **Update Frequency** Every five years.
- 4g **Database Hardware/Software Configuration** VAX computer with ARC/INFO and other GIS software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, maps, graphs.
- 5 **Restrictions and Conditions** Some information is confidential.
- 6 **Price Information** Depends on the size of the request.
- 7 **Corresponding Printed Sources**
 1. Agroecological Resource Map and Report for Alberta.
 2. Other reports covering topics such as land use and production potentials in the Northern Great Plains; cropping systems of Manitoba.
- 8 **Languages** The reports are in English; the database is mostly numbers.
- 9 **User Aids Available** None currently, but planned.
- 10 **Keywords** Agriculture; Agro-ecosystems; GIS; Risk; Soils.
- 11 **Additional Information** The database is in preparation. To date most of the Prairie Provinces have been covered. Quebec and Ontario will be added next. It is anticipated that the entire country will be covered within five years.

Canada Soil Information System (CANSIS)

1. **Datafile Name(s)** Detailed Soil Inventory Data.
- 2a. **Summary Description of Contents** Information on the physical, chemical, biological and mineralogical properties and distribution (spatial variability) of the major soils of Canada.
- 2b. **Purpose of the Database** To assess biological productivity, to identify areas that have actual or potential problems affecting land use, and to locate areas or parcels of land that may be suitable for particular types of land use.
- 3a. **Name and Address of Responsible Organization** Land Resource Research Centre, Research Branch, Agriculture Canada, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. K. Bruce MacDonald (613) 995-5011 FAX: (613) 996-0646
- 3c. **Access Mechanisms** Through the responsible organization either in Ottawa or regional offices.
- 4a. **Variables Included (summarized if extensive)**
 - landscape area parameters: slope; stoniness; drainage; rooting depth; soil taxonomy
 - layer or horizon properties: pH; organic matter content; bulk density; moisture retention; hydraulic conductivity; electrical conductivity; calcareousness; cation exchange capacity; base saturation
- 4b. **Geographic Coverage** National coverage with greatest detail in the agricultural regions.
- 4c. **Data Acquisition Method(s)** Detailed soil inventory data compiled by field surveys aided by air photo interpretation; soil landscape data prepared by interpretation and aggregation from existing sources.
- 4d. **Geographic Unit(s) of Measurement** Soil areas or map polygons consisting of up to three soil and landscape combinations.
- 4e. **Period of Record** Essentially a static record of the basic land resource with individual map areas surveyed at different dates ranging back to 1940.
- 4f. **Update Frequency** Updated irregularly, mainly in response to needs for additional or more detailed information
- 4g. **Database Hardware/Software Configuration** Hardware - DEC VAX 11/785, TEKTRONIX graphics terminals, CALCOMP plotters, GENTIAN Digitizing tables; Software - ARC/INFO Geographic Information System.
- 4h. **Output Format(s) (tables, maps, etc.)** Computer generated and printed maps, tabular reports and original data on magnetic media (tapes or diskettes).
5. **Restrictions and Conditions** No confidentiality or access restrictions; requests should be made through LRRRC soil inventory personnel.
6. **Price Information** Charges for materials only for standard product type requests. Cost recovery policy to be developed.
7. **Corresponding Printed Sources** Published Soil Survey Reports and Soil Landscape Maps.
8. **Languages** Output is available or being developed in both official languages.
9. **User Aids Available** User guides and manuals are in preparation.
10. **Keywords** Agriculture; GIS; Land; Landscape; Soil classification; Soils
11. **Additional Information**
 1. The datafiles are intended to be used either on their own or in conjunction with other spatial data such as climate, land use, etc: (1) to assess the biological productivity of land areas; (2) to identify areas that have actual or potential problems affecting land use, such as salinity or susceptibility to erosion, and to assess severity; (3) to locate areas or parcels of land that may be suitable for particular types of land use for more detailed investigations; (4) and to assess other land use and environmental quality issues.
 2. The CANSIS databases reside on a computer system owned by Agriculture Canada and located in Ottawa.
 3. Variables are not necessarily available for all areas of Canada.
 4. Detailed soil survey data are compiled at various scales ranging from 1:10,000 to 1:125,000

Compendium of Fertilizer-Use Pesticides

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on pesticides that may be combined with fertilizers and active ingredient levels approved for use in Canada
- 2b. **Purpose of the Database** Database provides directions for product labelling and chemical information to industry and is used as a reference by the Department for label review.
- 3a. **Name and Address of Responsible Organization** Feed Section, Plant Products Division, Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Ramsay (613) 995-7900 FAX: (613) 992-5219
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - pesticide common name
 - guarantee
 - approved uses
 - claims
 - application rates
 - precautions
 - first aid
 - disposal procedure
 - compatibility with other pesticides
 - approved pesticides for use with fertilizers
 - pesticides incompatible with fertilizers
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Trade publications, previously approved labels
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** Late 1970's - present
- 4f. **Update Frequency** Constantly updated
- 4g. **Database Hardware/Software Configuration** The Compendium is printed using VENTURA software. INGRES (VAX) is used to keep track of registered fertilizer-pesticides.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** *The Compendium of Fertilizer-Use Pesticides* (1989)
8. **Languages** Report is bilingual, database is in English
9. **User Aids Available** None
10. **Keywords** Agriculture, Fertilizers; Pest management, Pesticides
11. **Additional Information** The periodicity of the compendium production has not been determined. Supplements will likely be produced to keep it up-to-date

Crop Residue Survey

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Surface crop residue remaining in October.
- 2b. **Purpose of the Database** To estimate the risk of soil erosion.
- 3a. **Name and Address of Responsible Organization** Soil and Water Conservation Service, Prairie Farm Rehabilitation Administration, 1901 Victoria Avenue, Regina, Saskatchewan, S4P 0R5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Malcolm Black (306) 780-7011 FAX: (306) 780-5018
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - percent crop residue cover
 - cover type and orientation of cover
 - location (quarter sections)
- 4b. **Geographic Coverage** Agricultural area of the Prairie Provinces (except Peace River).
- 4c. **Data Acquisition Method(s)** Field inspection sheets keypunched in Regina.
- 4d. **Geographic Unit(s) of Measurement** Individual samples in selected quarter sections.
- 4e. **Period of Record** 1986 - 1988.
- 4f. **Update Frequency** None planned.
- 4g. **Database Hardware/Software Configuration** MS DOS compatible microcomputer; data in ASCII files.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources**
 1. *Alberta Soils at Risk - Again*
 2. *Results of a Crop Residue Survey*
 3. *Saskatchewan Soils at Risk*
 4. *Manitoba Soils at Risk*
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Agriculture; Alberta; Crop residue; Erosion risk; Manitoba; Saskatchewan; Soils; Summerfallow; Prairies.
11. **Additional Information** None.

Heavy Metal Concentrations in Fertilizers and Fertilizer Materials

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on heavy metal concentrations in fertilizer materials.
- 2b. **Purpose of the Database** To monitor fertilizer contamination by heavy metals to avoid soil contamination and subsequent plant uptake.
- 3a. **Name and Address of Responsible Organization** Feed Section, Plant Products Division, Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Margaret Kenny (613) 995-7900 FAX: (613) 992-5219
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location (producer, town)
 - fertilizer material composition
 - heavy metals (arsenic, cadmium, cobalt, mercury, lead, zinc, nickel, selenium, molybdenum)
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Data from random surveys and specific case studies.
- 4d. **Geographic Unit(s) of Measurement** Individual producers, nearest town.
- 4e. **Period of Record** Mid 1970's - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Not applicable.
5. **Restrictions and Conditions** Data on individual producers are restricted.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Agriculture; Contamination; Fertilizers; Heavy metals; Plants; Soils.
11. **Additional Information** None.

Land Potential for Agriculture Database

1. **Datafile Name(s)** There are eight major files (see 4a)
- 2a. **Summary Description of Contents** A national GIS database on the agricultural potential and actual crop yields for 755 soil polygons across Canada, mapped at a scale of 1: 5,000,000.
- 2b. **Purpose of the Database** To describe the soil units (polygons) in terms of soil characteristics, physiography, climate, agricultural potential and risk of degradation.
- 3a. **Name and Address of Responsible Organization** Land Resource Research Centre, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Valerie Kirkwood (613) 995-5011 FAX: (613) 996-0646
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - climate (30 year normals for temp, precipitation, solar radiation, etc. by month and for growing season)
 - soil description (characteristics, physiography, land use)
 - actual yield (by crop)
 - soil degradation (salinity, erosion, etc.)
 - constraint-free yield (modelled potential crop yields)
 - Canada Land Inventory (CLI ratings and limitations for agriculture)
 - provincial proportion
 - soil suitability (for various crops)
- 4b. **Geographic Coverage** National, 755 polygons at 1:5,000,000.
- 4c. **Data Acquisition Method(s)** Soil data from Agriculture Canada Soil Survey; climate data from Atmospheric Environment Service; actual yield data from Provincial yearbooks.
- 4d. **Geographic Unit(s) of Measurement** Polygons.
- 4e. **Period of Record** Soil data - 1977; climate 1951-80 normals; actual yield - 1980's.
- 4f. **Update Frequency** Yield data updated annually
- 4g. **Database Hardware/Software Configuration** Data stored on VAX and IBM PC, using ARC/INFO GIS software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, ASCII files
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Soil map of Canada 1:5,000,000
8. **Languages** The database is in English.
9. **User Aids Available** *The Land Potential Database for Canada User's Handbook* (Technical Bulletin 1983-4) (see 11).
10. **Keywords** Agriculture; Agro-ecosystems; GIS; Land; Land potential; Soil degradation; Soils.
11. **Additional Information** This database will be maintained for the foreseeable future as it is linked to the current state of the environment assessment. It is the only database that provides national coverage of agricultural potential. It will eventually be superseded by provincial agroecological resource areas databases at a scale of 1:2,000,000, currently under development at LRRC.

Levels of Pesticide Contaminants in Fertilizers

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database on pesticide contaminants in fertilizers
- 2b. **Purpose of the Database** To monitor fertilizer contamination by pesticide residues to prevent crop damage
- 3a. **Name and Address of Responsible Organization** Feed Section, Plant Products Division, Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Margaret Kenny (613) 995-7900 FAX: (613) 992-5219
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - location (producer, town)
 - fertilizer composition
 - pesticides (butylate, atrazine, trifluralin, triallate, metolachlor)
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Data from random surveys and specific case studies
- 4d. **Geographic Unit(s) of Measurement** Individual producers, nearest town
- 4e. **Period of Record** Late 1970's - present
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Paper file
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Data on individual producers are restricted
6. **Price Information** No charge
7. **Corresponding Printed Sources** Internal annual summary documents have been prepared since 1988
8. **Languages** The database and document are in English
9. **User Aids Available** None
10. **Keywords** Agriculture; Contaminants, Fertilizers, Pesticides
11. **Additional Information** None

Livestock Feeds Contaminants Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A national database on contaminants in livestock feed
- 2b **Purpose of the Database** To monitor residues in livestock feeds and assess compliance under the Feeds Act and Regulations.
- 3a **Name and Address of Responsible Organization** Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms Daintry Gordon (613) 995-7900 FAX: (613) 992-5219
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - product tested
 - feed registrants
 - on-farm manufacturers
 - feed mills
 - antibiotics
 - heavy metals (cadmium, mercury, lead, arsenic)
 - pesticides (30 screened)
 - biological contaminants (e.g. salmonella, mycotoxins)
 - location (province)
- 4b **Geographic Coverage** National.
- 4c **Data Acquisition Method(s)** Data from national random sampling surveys and specific directed investigations.
- 4d **Geographic Unit(s) of Measurement** Individual sample sources and by province.
- 4e **Period of Record** Database set up in 1985; data from late 1970's - present.
- 4f **Update Frequency** Weekly
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE III PLUS software, INGRES (VAX).
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text.
- 5 **Restrictions and Conditions** Some individual data are confidential, but summary information is not.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** *Year End Summary of Feed Inspection Program, 1988.*
- 8 **Languages** Report is bilingual; database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Agriculture; Agri-food; Contaminants; Food; Livestock feed; Residues; Toxins.
- 11 **Additional Information** None.

Pest Management Research Information System (PRIS)

- 1 **Datafile Name(s)** Thesaurus, Experimental Pest Control Products, Pest Management Research Data, Maximum Residue Limits in Foods, Parasitic and Predatory Insect Releases, Minor Use Program.
- 2a **Summary Description of Contents** A national database on research data related to pest management in Canada.
- 2b **Purpose of the Database** To supply research data on pest management in Canada in support of sustainable agriculture.
- 3a **Name and Address of Responsible Organization** Scientific Information Retrieval Section, Research Branch, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Harry Krehm (613) 995-7084
Canadian Centre for Occupational Health and Safety, 250 Main Street E., Hamilton, Ontario, L8N 1H6.
(416) 572-4400 (1-800-263-8466, in Canada)
- 3c **Access Mechanisms** Through the contact organization (AGRINET); database available on-line or on diskette from CCOHS.
- 4a **Variables Included (summarized if extensive)**
 - experimental pest control agents (e.g. pesticides, cultivars, biological agents)
 - research data (by crop pest)
 - maximum residue limits in foods
 - insect releases (predators, parasites)
 - researchers
 - minor use of pest control agents
- 4b **Geographic Coverage** National.
- 4c **Data Acquisition Method(s)** Information from government, individual and private researchers, Departmental publications; food residue limits set by Health and Welfare Canada.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** 1982 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** VAX computer with custom software and IBM compatible PC.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** The on-line service is free except for Datapac communications charges; the disc package is issued four times a year by CCOHS and costs \$114.00 annually.
- 7 **Corresponding Printed Sources** *Pest Management Research Report* (an 8-year summary)
- 8 **Languages** The database is essentially in English although reports are entered in the language of the author with French terminology where applied.
- 9 **User Aids Available** Database is very user-friendly.
- 10 **Keywords** Agriculture; Insects; Pest management; Pesticides; Plant diseases.
- 11 **Additional Information**
 1. This database currently contains information on pest management practices involving pesticides. It is being expanded to include more information on management using biological control, cultivars and biotechnology.
 2. The entire text of research reports is included in the database.
 3. While Agriculture Canada is responsible for providing the data for the database, this information is also available through the Canadian Centre for Occupational Health and Safety on diskette.

Plant Pest Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on plant pests on imported or exported plant products.
- 2b. **Purpose of the Database** To provide information on pests on imported and exported plant products.
- 3a. **Name and Address of Responsible Organization** Plant Protection Division, Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Johanne Beaulieu (613) 995-7900
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - pest (insect, virus, bacterium, etc.)
 - host
 - geographic distribution of host and pest
 - references
- 4b. **Geographic Coverage** Worldwide.
- 4c. **Data Acquisition Method(s)** Field surveys, laboratory reports, literature survey, personal communications.
- 4d. **Geographic Unit(s) of Measurement** Location by continent, country, state/province.
- 4e. **Period of Record** 1900 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** VAX with INGRES relational database system.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** None.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Agriculture; Insects; Pest management; Pests.
11. **Additional Information**
 1. This database is under development and in the process of expansion.
 2. At present this database is for internal use only.

Prairie Rural Water Development Program Projects

1. **Datafile Name(s)** Rural water projects.
- 2a. **Summary Description of Contents** A database of individual on-farm water development projects in Alberta, Manitoba and Saskatchewan financially assisted under the Rural Water Development Program.
- 2b. **Purpose of the Database** To maintain an historical record of assisted projects for assessment of individual projects and program evaluation
- 3a. **Name and Address of Responsible Organization** Prairie Farm Rehabilitation Administration, Agriculture Canada, Motherwell Building, 1901 Victoria Avenue, Regina, Saskatchewan, S4P 0R5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. George Sephton (306) 780-5104 Mr. Brian Sembaluk (306) 780-6590
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - applicant (name, address)
 - project location (legal land description)
 - assistance (amount, date)
 - project details: cost; depth, size, well casing; well yield, storage, capacity, area irrigated
 - farm type (commodity): use of water, number of cattle, land control
- 4b. **Geographic Coverage** Alberta, Saskatchewan, Manitoba and Peace River region of B.C.
- 4c. **Data Acquisition Method(s)** Data from application forms and payment certificates
- 4d. **Geographic Unit(s) of Measurement** Projects located by legal land description
- 4e. **Period of Record** Basic information 1935 - 1973, detailed information 1973 - present
- 4f. **Update Frequency** As new information is received
- 4g. **Database Hardware/Software Configuration** HP 3000 with POWERHOUSE data management system and IMAGE DATABASE software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text
5. **Restrictions and Conditions** Some information may be restricted
6. **Price Information** No charge to government personnel, for other requests, see contact person
7. **Corresponding Printed Sources** Internal reports cover project pay lists, year end summaries, historic data summaries and other topics
8. **Languages** The database and reports are in English but they mainly contain numbers
9. **User Aids Available** Screen enquiry
10. **Keywords** Agriculture; Alberta; British Columbia; Irrigation, Manitoba, Prairies, Saskatchewan, Water, Water management, Water quantity, Water use.
11. **Additional Information** None

Regulatory Information on Pesticide Products

- 1 **Datefile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Information on pesticides registered under the Pest Control Products Act, including product names, registrant names, marketing classification, product types, guarantees and uses.
- 2b **Purpose of the Database** To provide support for pesticide regulation and control in Canada.
- 3a **Name and Address of Responsible Organization** Information Division, Pesticides Directorate, Agriculture Canada, Ottawa, Ontario, K1A 0C6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Frank Cedar (613) 993-4544
- 3c **Access Mechanisms** A sub-set of this database is available on-line and as a subscription service on CD-ROM through the Canadian Centre for Occupational Health and Safety (CCOHS), Hamilton, Ontario.

English telephone numbers of CCOHS(416) 572-4400 and 1-800-263-8466
French telephone numbers of CCOHS(416) 572-2981 and 1-800-263-8276
- 4a **Variables Included (summarized if extensive)**
 - database includes: registration number, name and address; product name and marketing type; date of first registration; product and formulation type; guarantee; crop or location of use; pest; regulatory status
 - text base: includes full label text of all products registered under the PCP Act
- 4b **Geographic Coverage** National.
- 4c **Data Acquisition Method(s)** On-line entry as part of the pesticide registration process.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** 1926 - present.
- 4f **Update Frequency** Daily
- 4g **Database Hardware/Software Configuration** VAX 11/785 computer with INGRES DBMS and FUL/TEXT retrieval system.
- 4h **Output Format(s) (tables, maps, etc.)** Reports, tables.
- 5 **Restrictions and Conditions** There is no provision for direct access to the computer system from outside Agriculture Canada (see 11).
- 6 **Price Information** Contact CCOHS for current price
- 7 **Corresponding Printed Sources** Lists of registered products and copies of labels on microfiche may be purchased from Xebec Imaging Services Inc., 12-1675 Russell Road, Ottawa, Ontario; telephone (613) 521-7017. Printed lists of registered products may be purchased from Mr. Ed Clutten, PACS, Box 506, Burlington, Ontario, L7R 3Y3 (416) 632-7232
- 8 **Languages** English, French.
- 9 **User Aids Available** CCOHS provides telephone support (1-800-263-8340; 416-572-4444) in English and French to users of the RIPP/RIPA database.
- 10 **Keywords** Agriculture; Contaminants; Pest management; Pesticides.
- 11 **Additional Information**
 1. Outside users may access the data through the Canadian Centre for Occupational Health and Safety, Hamilton or may request hard copy reports from the Director, Information Division
 2. Specific queries can be directed to the National Pesticides Information call line service, 1-800-267-6315

Residues in Agri-foods Monitoring Program

- 1 **Datefile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A national database on residues in agri-foods.
- 2b **Purpose of the Database** To assess residue levels in agri-foods for compliance monitoring
- 3a **Name and Address of Responsible Organization** Food Inspection Directorate, Food Production and Inspection Branch, Agriculture Canada, 2255 Carling Avenue, Ottawa, Ontario, K1A 0Y9.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. P.W. Saschenbrecker (613) 995-5433 FAX: (613) 993-8959
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - agri-foods (meat, poultry, eggs, dairy, fruit, vegetables)
 - pesticides, antibiotics, hormones
 - medicating feed ingredients
 - industrial pollutants, heavy metals
 - coccidiostats (domestics, imported)
 - surveillance data (follow-up action when required)
- 4b **Geographic Coverage** National.
- 4c **Data Acquisition Method(s)** Data obtained from analyses conducted by Agriculture Canada and private laboratories; samples collected by the department.
- 4d **Geographic Unit(s) of Measurement** Individual samples.
- 4e **Period of Record** 1981 - present.
- 4f **Update Frequency** Daily.
- 4g **Database Hardware/Software Configuration** Some data on IBM compatible microcomputer with LOTUS 1-2-3, MANAGER II software; some in paper files.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Some sensitive data are restricted.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** An annual publication - *Annual Report on Residue Testing and Formula Compliance for the Fiscal Year 1988-1989*.
- 8 **Languages** Database is in English; reports are bilingual.
- 9 **User Aids Available** None.
- 10 **Keywords** Agri-food; Agriculture; Contaminants; Food; Pesticides; Residues.
- 11 **Additional Information**
 1. Background information on sampling requirements, determination of risk factors, types of hazards, sampling plans, etc. are provided in *Consolidated Strategy for the Assessment of Chemical and Biological Hazards in Agri-food Commodities*, available from the Agri-food Safety Division.
 2. Prior to 1988, data are available only for meat and poultry.

Soil Landscape Maps (SLM) Degradation File

1. **Datafile Name(s)** One for each province.
- 2a. **Summary Description of Contents** Computer files of parameters defining risk of soil degradation based on polygons on the 1:1,000,000 Soil Landscapes of Canada maps.
- 2b. **Purpose of the Database** To provide the capability of assessing the quality and degradation of agricultural land across Canada and the means for rapidly updating this information.
- 3a. **Name and Address of Responsible Organization** Land Resource Research Centre, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Dick Coote (613) 995-5011 FAX: (613) 996-0646
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - critical climate variables (e.g. average maximum spring wind speed, rainfall, erosivity)
 - agricultural land use indices (based on acreage of summer fallow, intensively tilled row crops, grains, other crops)
 - derived soil and landscape data (e.g. soil erodibility by wind, acid buffering capacity, presence of salinity)
- 4b. **Geographic Coverage** Alberta, Saskatchewan, Manitoba (see 11).
- 4c. **Data Acquisition Method(s)** Data obtained from the Soil Landscapes of Canada database (Agriculture Canada), Atmospheric Environment Service and Statistics Canada's Census of Agriculture.
- 4d. **Geographic Unit(s) of Measurement** Soil of polygons mapped at a scale of 1:1,000,000
- 4e. **Period of Record** Initiated 1985; data from 1960's - present
- 4f. **Update Frequency** Plans are to update the information following each Census of Agriculture.
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Maps and accompanying reports have been prepared for wind erosion (Alberta, Manitoba, Saskatchewan [provisional]), water erosion (Manitoba, Saskatchewan [provisional]) and salinity (Manitoba, Alberta, Saskatchewan [provisional, in press]) (see 11).
8. **Languages** All documentation is bilingual.
9. **User Aids Available** The reports above provide information on data use methodologies and tabular data
10. **Keywords** Agriculture; Environmental quality; Erosion; Erosion risk; Land; Landscape; Salinization; Soils; Soil degradation.
11. **Additional Information**
 1. Water erosion risk for southern Ontario and the Maritimes are being prepared and will be followed by B.C. and Quebec maps. The comprehensive national series of water erosion maps will probably be available by 1993. Maps of acidification and compaction risk are planned for eastern Canada, but have not yet been initiated.
 2. The applications of this database are numerous including model development for fertilizer and pesticide pathways in soil and identification and analysis of degradation problems. It will become a particularly powerful tool for state of the environment assessment when integrated with the Census of Agriculture conducted by Statistics Canada.

Soil Landscapes of Canada

1. **Datafile Name(s)** One for each province and Yukon
- 2a. **Summary Description of Contents** A national standardized GIS database of soil information for several thousand polygons mapped at the scale of 1:1,000,000
- 2b. **Purpose of the Database** To provide information on soils to identify actual and potential agricultural constraints, locate areas suitable for particular agricultural uses and assess productivity over large regions
- 3a. **Name and Address of Responsible Organization** Land Resource Research Centre, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Jack Shields (613) 995-5011 FAX: (613) 996-0646
- 3c. **Access Mechanisms** Through the responsible agency
- 4a. **Variables Included (summarized if extensive)**
 - on maps: dominant soil type, soil development; material type, genetic origin, texture, surface form; slope class
 - in accompanying reports additional detail for each polygon for dominant and subdominant soils: surface texture, drainage class, calcareous class, depth to water table, type compacted layer, depth compacted layer
- 4b. **Geographic Coverage** National, excluding the Northwest Territories
- 4c. **Data Acquisition Method(s)** Data derived from the most recent soil landscape maps and reports
- 4d. **Geographic Unit(s) of Measurement** Thousands of polygons mapped at a scale of 1:1,000,000
- 4e. **Period of Record** Established 1984, data 1940 - present
- 4f. **Update Frequency** The database will be updated as more recent soil survey information becomes available, but maps will not be updated
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III software; ARC/INFO GIS on VAX MATE
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, text, tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge, however, price subject to change without notice
7. **Corresponding Printed Sources** Maps, corresponding reports and illustration pages are available for Alberta, Manitoba, southern Ontario, southern Quebec, Nova Scotia, New Brunswick, Prince Edward Island, and Newfoundland (see 11)
8. **Languages** Database and user's manual are in English; a French version of the handbook is planned
9. **User Aids Available** *Soil Landscapes of Canada Procedures Manual and User's Handbook* (1989)
10. **Keywords** Agriculture; GIS; Land; Landscape; Soil classification; Soils
11. **Additional Information**
 1. Information packages including a map, report and illustration page are available from the responsible agency
 2. The maps have been digitized and attribute information is in a computer-compatible format (ARC/INFO) Diskettes with information in addition to that provided on the maps and in reports (e.g. organic matter content, pH, nitrogen levels, vegetation cover, lake size) are available on request
 3. Maps for Saskatchewan are in press; those for northern and southern B.C. and the Yukon are being prepared.
 4. These maps are used as a basis for preparing soil degradation maps and agro-ecological resource area maps

Wildlife Serum Bank

- 1 **Datefile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A bank of serum samples collected from wildlife species in Canada.
- 2b **Purpose of the Database** To store serum samples and provide them for retrospective studies on the health status of wildlife populations used for game farming and to record the study results.
- 3a **Name and Address of Responsible Organization** Health of Animals Laboratory, Agriculture Canada, 116 Veterinary Road Saskatoon, Saskatchewan, S7N 2R3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Stacy Tessaro (306) 975-4071 FAX: (306) 975-5711
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
- species (muskoxen, elk, bison, fallow deer)
 - submitter/collector
 - location (e.g. town, township)
 - date
 - sex, age (occasionally)
- 4b **Geographic Coverage** Sporadic.
- 4c **Data Acquisition Method(s)** Serum samples collected by Agriculture Canada staff and other veterinarians and biologists.
- 4d **Geographic Unit(s) of Measurement** Individual sample locations.
- 4e **Period of Record** 1981 - present.
- 4f **Update Frequency** As new samples are submitted.
- 4g **Database Hardware/Software Configuration** Paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Record books.
- 5 **Restrictions and Conditions** To be determined
- 6 **Price Information** Not yet determined.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** The database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Biotic health; Bison; Deer; Diseases; Elk; Genetic diversity; Mammals; Muskoxen; Wildlife.
- 11 **Additional Information**
1. To date, serum samples have been collected by a number of agencies to examine specific disease issues. Geographic coverage is spotty, but there is potential for the database to become national in scope.
 2. This database is currently under development. There are plans to computerize the serum record information and add the results of the disease analyses conducted.
 3. Once the database is computerized, an inventory of samples and contributor guidelines will be prepared.

CANADA MORTGAGE AND HOUSING CORPORATION

<i>Canada Mortgage and Housing Corporation Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
AIRCRAFT NOISE EXPOSURE FORECAST (NEF)	Mr. Leo Marti-Aguilar (613) 748-2264	20
HOUSING MARKET INFORMATION SYSTEM (HMIS)	Ms. Jane Carruthers (613) 748-2355	20

Aircraft Noise Exposure Forecast (NEF)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Contour maps at 1:50,000 scale of current and forecast noise levels in the vicinity of airports in Canada.
- 2b **Purpose of the Database** To provide information concerning housing construction and airport noise to develop construction guidelines and to determine zones not eligible for financing under the National Housing Act.
- 3a **Name and Address of Responsible Organization** Canada Mortgage and Housing Corporation, 682 Montreal Road, Ottawa, Ontario, K1A 0P7.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Leo Marti-Aguilar (613) 748-2264
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - airport name
 - noise level (25, 30, 35, 40 decibel contour intervals)
 - existing noise levels
 - noise level forecast
- 4b **Geographic Coverage** National, 129 airports, 6 of which are military.
- 4c **Data Acquisition Method(s)** Noise data supplied by Transport Canada and National Defence
- 4d **Geographic Unit(s) of Measurement** Individual airports located by community.
- 4e **Period of Record** 1973 - future.
- 4f **Update Frequency** Irregular, depending upon traffic volume predictions of Transport Canada.
- 4g **Database Hardware/Software Configuration** Noise data on mainframe and IBM compatible microcomputer with custom software; maps are in a paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Maps.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge for maps; report on airport noise costs \$2.00.
- 7 **Corresponding Printed Sources**
 1. *New Housing and Airport Noise* (1976), revised 1981 (report).
 2. *Noise Level Maps* (1973).
- 8 **Languages** Reports are bilingual.
- 9 **User Aids Available** None.
- 10 **Keywords** Aircraft; Airports; Noise; Transportation.
- 11 **Additional Information**
 1. Noise level forecasts are based on a model that incorporates information on aircraft type, destination, time of day, runway location and roadway location. This is operated by Transport Canada; the noise level contours are overlaid on maps by CMHC.
 2. A related report entitled *Road and Rail Noise: Effects on Housing* (updated 1986) is also produced by CMHC.

Housing Market Information System (HMIS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on housing including structures, distribution, price and financing.
- 2b. **Purpose of the Database** To direct program development of the Department, assess gross national product and provide housing data for business use.
- 3a. **Name and Address of Responsible Organization** Statistical Survey Division, Canada Mortgage and Housing Corporation, 682 Montreal Road, Ottawa, Ontario, K1A 0P7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Jane Carruthers (613) 748-2355 FAX: (613) 748-6095
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location, address
 - dwelling type
 - date started
 - number of units
 - finance type (national housing assistance, other)
 - date completed
 - price
 - optional information (contacts, builder's name, rents, etc.)
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Data collected by CMHA personnel across Canada.
- 4d. **Geographic Unit(s) of Measurement** Housing structures referenced by province, country, municipality using standard geographic codes.
- 4e. **Period of Record** 1940 - present.
- 4f. **Update Frequency** Quarterly or monthly, depending upon financing and community size.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text.
5. **Restrictions and Conditions** Data on individual structures is not available but summaries are accessible.
6. **Price Information** No charge for data in a form already compiled; data compilation charges depend on request.
7. **Corresponding Printed Sources**
 1. *Canadian Housing Statistics* - produced annually with monthly supplements.
 2. *Statistical Handbook Tables* - produced monthly for each municipality and covers starts, completions, price.
 3. *Starts and Completions* - annual report prepared by CMHC.
8. **Languages** Reports are bilingual; the database is in English.
9. **User Aids Available** None.
10. **Keywords** Construction; Environmental restructuring; Housing.
11. **Additional Information** The early records were collected by Statistics Canada and exist in hard copy format.

CANADIAN MUSEUM OF NATURE

<i>Canadian Museum of Nature Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
CANADIAN MUSEUM OF NATURE ALGAE HERBARIUM PROGRAM DATABASE	Dr. Michel Poulin (613) 990-6454 Mr. Paul B. Hamilton (613) 990-6436 Ms. Barbara Kobolak (613) 990-6450	22
CANADIAN MUSEUM OF NATURE ICHTHYOLOGY COLLECTION	Dr. Brian W. Coad (613) 996-1757 Dr. Don E. McAllister (613) 992-0499	22
CANADIAN MUSEUM OF NATURE LICHENS PROGRAM DATABASE	Ms. Barbara Kobolak (613) 990-6450 Mr. Pak-Yau Wong (613) 990-6445 Dr. Irwin M. Brodo (613) 990-6446	23
CANADIAN MUSEUM OF NATURE MOSSES PROGRAM DATABASE	Ms. Linda Ley (613) 990-6448 Ms. Barbara Kobolak (613) 990-6450	23
CANADIAN MUSEUM OF NATURE VASCULAR PLANTS PROGRAM DATABASE	Ms. Barbara Kobolak (613) 990-6450 Dr. George Argus (613) 990-6441	24
FRESHWATER PLANKTONIC INVERTEBRATES DATABASE	Mr. Rama Chengalath (613) 954-4958	24
GENERAL INVERTEBRATES DATABASE	Mr. Rama Chengalath (613) 954-4958 Mr. Peter Frank (613) 954-2583	25
HERPETOLOGY DATABASE (CURATOR)	Dr. Francis Cook (613) 996-1756	25
MAMMAL COLLECTION DATABASE	Dr. C. G. van Zyll de Jong (613) 954-4947 Mr. David Campbell (613) 954-4949	26

**Canadian Museum of Nature
Algae Herbarium Program Database**

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on 48,213 algae specimens collected worldwide that are held or examined at the Canadian Museum of Nature.
- 2b. **Purpose of the Database** Data used for research and services in the fields of systematics, ecology, conservation and environmental impact.
- 3a. **Name and Address of Responsible Organization** Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Dr. Michel Poulin (613) 990-6454 Mr. Paul B. Hamilton (613) 990-6436
 Ms. Barbara Kobolak (613) 990-6450 FAX: (613) 990-6451
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - 63 fields including
 - systematic and taxonomic data (plant morphometric data)
 - geographic data (country; locality; latitude and longitude)
 - ecological information (habitat; physico-chemical data, including pH, conductivity, nutrients)
 - citation data on published research
- 4b. **Geographic Coverage** Worldwide, majority of the records deal with North American water bodies.
- 4c. **Data Acquisition Method(s)** Information is obtained from herbarium labels, field books, CANA herbarium specimens, loans of specimens from other herbaria, gazetteers, maps, atlases.
- 4d. **Geographic Unit(s) of Measurement** Various.
- 4e. **Period of Record** Early 1800's - present.
- 4f. **Update Frequency** Continually.
- 4g. **Database Hardware/Software Configuration** Mainframe computer with CURATOR database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Text (herbarium labels, reports).
5. **Restrictions and Conditions** Accounts have a password; certain data fields have a restriction on the way the information can be entered.
6. **Price Information** Upon request.
7. **Corresponding Printed Sources** Numerous scientific papers and books prepared by researchers at the Botany Division (see 11).
8. **Languages** The database and background documents are in English.
9. **User Aids Available** A user's manual has been prepared for internal use. It can be viewed at the responsible organization's office but is not for public dissemination.
10. **Keywords** Algae; Biota; Diatoms; Freshwater; Marine; Phytoplankton; Plankton; Seaweeds; Water; Water quality.
11. **Additional Information** Publication prepared: *A Catalogue of the Marine Algae of the Canadian Arctic*. R.K.S. Lee. Publications in Botany, No. 9, National Museums of Canada, Ottawa. 1980.

Canadian Museum of Nature Ichthyology Collection

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Catalogued and identified collections of fish.
- 2b. **Purpose of the Database** Data used for research and services in the fields of systematics, ecology, conservation, environment impact assessment.
- 3a. **Name and Address of Responsible Organization** Ichthyology Section, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Dr. Brian W. Coad (613) 996-1757 Dr. Don E. McAllister (613) 992-0499
 FAX: (613) 996-9915
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - item number
 - geographic information (country, province, description)
 - ecological information (habitat, type water quality, waterbody size, salinity, temperature, vegetation type)
 - collector
 - species and specimen information (age, size, parasites, maturity)
 - location (latitude, longitude, occurrence)
- 4b. **Geographic Coverage** World.
- 4c. **Data Acquisition Method(s)** Specimen and data collected by department staff or sent by other donors.
- 4d. **Geographic Unit(s) of Measurement** Latitude, longitude.
- 4e. **Period of Record** 1850 - present.
- 4f. **Update Frequency** Frequently.
- 4g. **Database Hardware/Software Configuration** CURATOR software on ALPHA MICRO 1092 minicomputer.
- 4h. **Output Format(s) (tables, maps, etc.)** Labels, catalog sheets, reports, summaries, maps.
5. **Restrictions and Conditions** Material under study by staff (new species or records) is restricted.
6. **Price Information** Depends on computer and person time; small requests are free. Charge levied for larger requests.
7. **Corresponding Printed Sources**
 1. Catalog sheets and labels are output.
 2. Reports for projects are prepared when and if needed, or for external service requests.
8. **Languages** Database is largely in English; French headings for fields are available.
9. **User Aids Available** In-house user's manual is available.
10. **Keywords** Aquatic ecosystems; Biodiversity; Biota; Conservation; Endangered species; Fish; Freshwater; Ichthyology; Marine.
11. **Additional Information** The database is slated for transfer to a VAX computer with a fourth generation language software package.

**Canadian Museum of Nature
Lichens Program Database**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on 20,000 lichen specimens collected worldwide that are held or examined at the Canadian Museum of Nature.
- 2b. **Purpose of the Database** To record distribution and other data on lichens.
- 3a. **Name and Address of Responsible Organization** Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Ms. Barbara Kobolak (613) 990-6450 Mr. Pak-Yau Wong (613) 990-6445
 Dr. Irwin M. Brodo (613) 990-6446 FAX: (613) 990-6451
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - 32 fields including
 - * species name
 - * taxonomy
 - * locality (latitude, longitude, UTM)
 - * collector
 - * date
 - * identification
 - * type information
 - * chemistry
 - * habitat
 - * specimen location (herbarium)
- 4b. **Geographic Coverage** Worldwide, though most of the records deal with North America and Europe.
- 4c. **Data Acquisition Method(s)** Data obtained from field books, herbarium specimen packets (CANL herbarium, and packets on loan from the herbaria), gazetteers, maps, atlases.
- 4d. **Geographic Unit(s) of Measurement** Various.
- 4e. **Period of Record** Early 1800's - present.
- 4f. **Update Frequency** Continually.
- 4g. **Database Hardware/Software Configuration** Main frame computer with CURATOR database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Text (herbarium labels, reports)
5. **Restrictions and Conditions** Accounts have a password; certain data fields have a restriction on the way the information can be entered; data on sensitive species may be restricted.
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** Numerous scientific papers and books prepared by researchers at the Botany Division.
8. **Languages** The database and background documents are in English
9. **User Aids Available** A user's manual has been prepared for internal use. This can be examined at the Botany Division office, but is not for public dissemination
10. **Keywords** Biota; Lichens; Plants.
11. **Additional Information** None.

**Canadian Museum of Nature
Mosses Program Database**

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on 16,000 moss specimens collected worldwide that are held or examined at the Canadian Museum of Nature
- 2b. **Purpose of the Database** To record distribution and other data on mosses
- 3a. **Name and Address of Responsible Organization** Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Ms. Linda Ley (613) 990-6448 Ms. Barbara Kobolak (613) 990-6450
 FAX: (613) 990-6451
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - 33 files including
 - * species name and taxonomy
 - * locality (latitude, longitude, UTM)
 - * collector and date
 - * identification
 - * type information
 - * habitat
 - * specimen location (herbarium)
- 4b. **Geographic Coverage** Worldwide, though most of the records deal with North America and South America
- 4c. **Data Acquisition Method(s)** Data obtained from field books, herbarium specimen packets, (CANM) herbarium, and specimen packets on loan from other herbaria, gazetteers, maps, atlases
- 4d. **Geographic Unit(s) of Measurement** Various
- 4e. **Period of Record** Early 1800's - present
- 4f. **Update Frequency** Continually
- 4g. **Database Hardware/Software Configuration** Mainframe computer with CURATOR database management system
- 4h. **Output Format(s) (tables, maps, etc.)** Text (herbarium labels, reports)
5. **Restrictions and Conditions** Accounts have passwords, certain data fields have a restriction on the way the information can be entered; data on sensitive species may be restricted
6. **Price Information** No charge for reasonably sized requests
7. **Corresponding Printed Sources** Numerous scientific papers and books prepared by researchers at the Botany Division (see 11)
8. **Languages** The database and background documents are in English
9. **User Aids Available** A user's manual has been prepared for internal use. It can be viewed at the Museum's office, but is not for public dissemination
10. **Keywords** Biota; Bryophytes; Mosses; Plants
11. **Additional Information** Recent publications for eastern Canada

 Ireland, Robert R. and Linda M. Ley (1984) *The Type Specimens of Bryophytes in the National Museum of Natural Sciences, National Museums of Canada* Syllogeus 47, National Museums of Canada, Ottawa

 Ireland, Robert R. and Gilda Bellolio-Trucco (1987) *Illustrated Guide to some Horworts, Liverworts and Mosses*. Syllogeus 62, National Museums of Canada, Ottawa

Canadian Museum of Nature
Vascular Plants Program Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on approximately 200,000 vascular plant specimens collected worldwide that are held or have been examined at the Canadian Museum of Nature
- 2b. **Purpose of the Database** To record distribution and other data on vascular plants.
- 3a. **Name and Address of Responsible Organization** Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Barbara Kobolak (613) 990-6450 Dr. George Argus (613) 990-6441
FAX: (613) 990-6451
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - 30 fields including
 - species name
 - taxonomy
 - locality (latitude, longitude, UTM)
 - collector
 - date
 - identification
 - habitat
 - type information
 - specimen location
- 4b. **Geographic Coverage** Worldwide, though most of the records deal with North America.
- 4c. **Data Acquisition Method(s)** Data obtained from field books, herbarium specimen sheets (CAN herbarium and specimen sheets on loan from other herbaria), gazetteers, maps, atlases.
- 4d. **Geographic Unit(s) of Measurement** Various.
- 4e. **Period of Record** 1850 - present.
- 4f. **Update Frequency** Continually.
- 4g. **Database Hardware/Software Configuration** Mainframe computer with CURATOR database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Text (herbarium labels, reports).
5. **Restrictions and Conditions** Accounts have passwords; certain data fields have a restriction on the way the information can be entered; data on sensitive species may be restricted.
6. **Price Information** No charge for reasonable sized requests.
7. **Corresponding Printed Sources** Numerous scientific papers and books prepared by researchers at the Botany Division (see 11).
8. **Languages** The database and background documents are in English.
9. **User Aids Available** A user's manual has been prepared for internal use. This can be examined at the Botany Division office, but is not for public dissemination.
10. **Keywords** Biota; Plants; Rare plants.
11. **Additional Information**
 1. Rare plants are a subset of this database with 12,300 records.
 2. Publications on rare species:
Argus, G.W. and K.M. Pyper (1990). *Rare Vascular Plants in Canada - Our Natural Heritage*. Canadian Museum of Nature, Ottawa.
Argus, G. W., K. M. Pyper, D. J. White, & C. J. Keddy, eds. (1982-1987). *Atlas of the Rare Vascular Plants of Ontario*. Four parts. National Museum of Natural Sciences, Ottawa, (looseleaf).
 3. Rare plant lists for each province and territory have been published.

Freshwater Planktonic Invertebrates Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A bibliographic database on freshwater planktonic invertebrates from across Canada and Alaska.
- 2b. **Purpose of the Database** To serve as a research tool for the scientific community.
- 3a. **Name and Address of Responsible Organization** Zoology Division, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Rama Chengalath (613) 954-4958 FAX: (613) 954-6439
- 3c. **Access Mechanisms** Accessible to clients of the Canadian Heritage Information Network via PARIS database.
- 4a. **Variables Included (summarized if extensive)**
 - 15 general subject categories are designated: behaviour; bibliography; biochemistry; development; distribution; ecology; fisheries; genetics; life history; morphology; pathology; physiology; systematics; taxonomy; techniques
- 4b. **Geographic Coverage** Canada, including all provinces and territories; Alaska.
- 4c. **Data Acquisition Method(s)** From published literature.
- 4d. **Geographic Unit(s) of Measurement** Organized by province, territory, state.
- 4e. **Period of Record** Early 1800's - 1986.
- 4f. **Update Frequency** No updating after publication.
- 4g. **Database Hardware/Software Configuration** CYBER 850 mainframe computer with PARIS custom software. This is part of the Canada-wide Canadian Heritage Information Network.
- 4h. **Output Format(s) (tables, maps, etc.)** Formatted reports are available to clients upon request.
5. **Restrictions and Conditions** Unpublished information is restricted.
6. **Price Information** Network may levy a charge.
7. **Corresponding Printed Sources** Irregular publications in the series *Bibliographia Invertebratorum Aquaticorum Canadensium*, Canadian Museum of Nature, Ottawa.
8. **Languages** Database is mainly English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biota; Freshwater; Plankton; Water; Zooplankton.
11. **Additional Information** Within the next few years the database will be transferred to a more versatile system.

General Invertebrates Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on the general invertebrates (i.e. all invertebrate groups except Crustacea, Insecta, Annelida, Mollusca and helminth parasites) in the Canadian Museum of Nature collection, including collecting site, date, collector, habitat, etc., and collection management data.
- 2b. **Purpose of the Database** A research and collection management tool for the specimens in the collection.
- 3a. **Name and Address of Responsible Organization** Zoology Division, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Rama Chengalath (613) 954-4958 Mr. Peter Frank (613) 954-2583
FAX: (613) 994-6439
- 3c. **Access Mechanisms** A small subset of the database is accessible to clients of the Canadian Heritage Information Network via the PARIS Natural Sciences National Database. Requests for more detailed information should be addressed to P. Frank.
- 4a. **Variables Included (summarized if extensive)**
 - taxonomy
 - geographic information, habitat, collection method
 - preservation and conservation methods and treatments
- 4b. **Geographic Coverage** Worldwide but particularly Canada; principally marine with some freshwater and terrestrial specimens.
- 4c. **Data Acquisition Method(s)** All data, except preservation and conservation data, are usually received from donors or collectors.
- 4d. **Geographic Unit(s) of Measurement** Sites recorded by latitude and longitude.
- 4e. **Period of Record** Mid-1800's - present
- 4f. **Update Frequency** As new specimens are added to the collection or old data are revised.
- 4g. **Database Hardware/Software Configuration** CONTROL DATA CYBER 850 mainframe with custom software (PARIS). This is part of a Canada-wide network (Canadian Heritage Information Network) used by many fine arts, human history and natural history museums in Canada.
- 4h. **Output Format(s) (tables, maps, etc.)** Formatted reports are available on request
5. **Restrictions and Conditions** Unpublished taxonomic data on type specimens is restricted. The source of data used in publications should be acknowledged
6. **Price Information** Depends upon the size of the request
7. **Corresponding Printed Sources** There are no regular publications summarizing the data but there are occasional special interest (e.g. type specimens) publications
8. **Languages** English is the main language used in the database but field data are entered in the original language, usually English or French
9. **User Aids Available** None.
10. **Keywords** Biota; Freshwater; Invertebrates; Marine
11. **Additional Information** Within the next few years the database will be transferred to an in-house VAX minicomputer system and a custom application written in a 4GL

Herpetology Database
(CURATOR)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An international (mainly Canadian) database on native reptile and amphibian specimens held by the Canadian Museum of Nature
- 2b. **Purpose of the Database** To record all data on native amphibians and reptile specimens held by the museum. This information is used in publication production
- 3a. **Name and Address of Responsible Organization** Herpetology Section, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Francis Cook (613) 996-1756 FAX: (613) 996-9915
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species (latin name)
 - locality (description, grid reference)
 - collector, date, number of specimens
- 4b. **Geographic Coverage** International, approximately 90% of specimens are from Canada
- 4c. **Data Acquisition Method(s)** Specimens collected by museum staff or sent to the museum by collectors across the country
- 4d. **Geographic Unit(s) of Measurement** Individual specimens referenced by locality description and by UTM and latitude, longitude since 1980
- 4e. **Period of Record** 1885 - present
- 4f. **Update Frequency** As new specimens are acquired
- 4g. **Database Hardware/Software Configuration** ALPHA microcomputer with ALPHA-WRITE software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text
5. **Restrictions and Conditions** Data will be released at the discretion of the Curator
6. **Price Information** To be determined
7. **Corresponding Printed Sources** Numerous papers published in scientific journals
8. **Languages** Species names are in Latin, other data are in the language of the specimen submitter
9. **User Aids Available** None
10. **Keywords** Amphibians; Biota; Reptiles; Wildlife
11. **Additional Information**
 1. All the data are also stored in a card file
 2. This database represents about two-thirds (120,000+) of all the specimens held in Canada
 3. A book entitled *Natural History of Amphibians and Reptiles of Canada* is in preparation and likely to be published by about 1995

Mammal Collection Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Collection data for mammals in Canadian Museum of Nature collection.
- 2b. **Purpose of the Database** To make collection data on mammals accessible for research and inquiries.
- 3a. **Name and Address of Responsible Organization** Canadian Museum of Nature, Mammalogy Section, Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. C. G. van Zyll de Jong (613) 954-4947 Mr. David Campbell (613) 954-4949
FAX: (613) 954-6439
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species name (Latin, English, French), field number, accession number
 - sex, age
 - location (region, latitude, longitude, altitude)
 - collector, means of acquisition
 - measurements
 - breeding data
 - identifier
- 4b. **Geographic Coverage** Worldwide.
- 4c. **Data Acquisition Method(s)** Museum catalogues, field notes, specimen labels.
- 4d. **Geographic Unit(s) of Measurement** Individual specimens referenced by latitude and longitude.
- 4e. **Period of Record** 1870's - present.
- 4f. **Update Frequency** Ongoing, continuous.
- 4g. **Database Hardware/Software Configuration** ALPHAMICRO SUPERMICRO computer with custom software (CURATOR) backed up on video tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports and tables on request.
5. **Restrictions and Conditions** Distributional information may be withheld for certain sensitive species.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** English mainly used in database but portions are available in French.
9. **User Aids Available** None.
10. **Keywords** Biota; Endangered species; Mammals; Wildlife.
11. **Additional Information**
 1. Within three years, the data will be transferred to VAX System and 4GL database.
 2. A service charge may be introduced in the future.

ENERGY MINES AND RESOURCES CANADA

<i>Energy Mines and Resources Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
AIRBORNE GAMMA RAY DATABASE (AGD)	Mr. J.M. Carson (613) 996-2325 Dr. R.L. Grasty (613) 992-1236	29
ANALYSIS DIRECTORY OF CANADIAN COMMERCIAL COALS	Dr. T.D. Brown (403) 987-8214	29
BIOENERGY INFORMATION AND TECHNOLOGY TRANSFER SYSTEM (BITTS)	Mr. Richard Davies (613) 996-8115	30
BIOGEOCHEMICAL PLANT DATABASE	Dr. Colin Dunn (613) 996-2373	30
CANADIAN EARTHQUAKE DATABASE	Mr. R.J. Wetmiller (613) 995-5548 Mrs. Janet Drysdale (613) 992-0249 Dr. Chin Wong (613) 995-7100	31
CANADIAN PERMAFROST DISTRIBUTION AND THICKNESS DATA COLLECTION	Dr. Alan Judge (613) 996-9323	31
COAL RESERVES OF CANADA	Dr. T.D. Brown (403) 987-8214	32
DATABASE ON THE PANEL ON ENERGY RESEARCH AND DEVELOPMENT EXPENDITURES	Dr. L. Vancea (613) 995-6145	32
GSC PETROLEUM EXPLORATION AND RESOURCES EVALUATION SYSTEM	Dr. P.J. Lee (403) 292-7011	33
MACKENZIE VALLEY GEOTECHNICAL DATABASE	Ms. M. Burgess (613) 996-9317 Mr. A. Heginbottom (613) 992-7813	33
MACROFOSSIL DATABASE	Mr. John Matthews (613) 996-6371	34
MASS BALANCE OF FOUR ARCTIC ICE CAPS AND GLACIERS	Dr. Fritz Koerner (613) 996-7623	34
MINERAL DEPOSITS INFORMATION SYSTEM (MINSYS)	Lise Hubert (613) 996-7394	35
NATIONAL GEOCHEMICAL RECONNAISSANCE DATABASE	Mr. E.H. Hornbrook (613) 992-6559 Dr. Peter Friske (613) 992-1503	35
NATIONAL GEOTHERMAL DATABASE	Dr. Alan Judge (613) 996-9323	36
PALEOCLIMATE ICE CORE DATA	Dr. Fritz Koerner (613) 996-7623 Dr. David A. Fisher (613) 996-7623	36
PALEOECOLOGICAL DATABASE	Ms. Hélène Jetté (613) 992-7301	37
POLLEN DATA	Dr. Fritz Koerner (613) 996-7623	37
QUATERNARY GEOLOGY DATABASE	Mr. Robert Belanger (613) 992-1856	38

<i>Energy Mines and Resources Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
RADIOCARBON DATABASE (DATE LOCATOR FILE)	Dr. R. McNeely (613) 995-4241	38
SHALLOW GROUND TEMPERATURE DATABASE	Dr. Alan Judge (613) 996-9323	39
WOOD IDENTIFICATION DATABASE	Dr. R.J. Mott (613) 992-0644	39
WORLDWIDE EARTHQUAKE DATABASE	Mr. R.J. Wetmiller (613) 995-5548 Mrs. J.A. Drysdale (613) 992-0249	40

Airborne Gamma Ray Database (AGD)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Airborne gamma ray spectrometric measurements of ground concentrations of Potassium, Uranium and Thorium.
- 2b. **Purpose of the Database** To aid in mineral exploration, geological mapping, and determination of natural radiation environment.
- 3a. **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. J.M. Carson (613) 996-2325 Dr. R.L. Grasty (613) 992-1236
FAX: (613) 996-9295
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - concentrations of natural radioelements (Potassium, Uranium and Thorium)
 - ratios of radioelements
 - exposure rate cause by natural radioelements
 - points located in latitude, longitude
- 4b. **Geographic Coverage** Precambrian shield and adjacent Phanerozoic areas, igneous and metamorphic regions of Appalachian Canada.
- 4c. **Data Acquisition Method(s)** Airborne Gamma Ray Spectrometry.
- 4d. **Geographic Unit(s) of Measurement** Data located by latitude-longitude or derived geographic grid (UTM, Lambert Conformal).
- 4e. **Period of Record** 1970 to present.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** DG MV1000, DFC VAX custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Contour maps, profile plots, digital data compatible with various industry standard software (PCI etc.).
5. **Restrictions and Conditions** None.
6. **Price Information** Depends on medium and size of request
7. **Corresponding Printed Sources** Maps and profiles available from responsible organization. Numerous reports are published in scientific journals.
8. **Languages** Principally English with French available since 1980
9. **User Aids Available** See notes available with data
10. **Keywords** Airborne gamma ray spectrometry; Equivalent Thorium; Equivalent Uranium; Radioactivity; Radon.
11. **Additional Information**
 1. This database has been drawn from data collected by and for the GSC
 2. All data collected since 1978 are available in both digital and printed form. Data collected prior to 1978 are available in printed form. Some of this older data has yet to be converted to digital standards.

Analysis Directory of Canadian Commercial Coals

1. **Datafile Name(s)** One file for each survey
- 2a. **Summary Description of Contents** A national database on the location and characteristics of commercial coals
- 2b. **Purpose of the Database** To locate coal sources for specific purposes, to prepare emission guidelines and to assist in project engineering design
- 3a. **Name and Address of Responsible Organization** Coal Research Laboratory, CANMET, Energy Mines and Resources Canada, 1 Oil Patch Drive, Devon, Alberta, T0C 1E0
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. T. D. Brown, Director (403) 987-8214 FAX: (403) 987-3430
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - proximate analyses (moisture content, ash content, volatile trace elements, fixed carbon)
 - ultimate analyses (carbon, hydrogen, sulphur, nitrogen, etc.)
 - sulphur type
 - calorific value
 - free swelling index
 - ash fusion characteristics
 - coal location (mine name, operator, coal seam, coal field, town, county)
- 4b. **Geographic Coverage** National, all coal sources
- 4c. **Data Acquisition Method(s)** Sampling and analyses carried out by EMR
- 4d. **Geographic Unit(s) of Measurement** Individual coal seams
- 4e. **Period of Record** 1960's - 1987.
- 4f. **Update Frequency** Periodic
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None for reports prepared, access to the database may be restricted
6. **Price Information** Prices for data depend on the request
7. **Corresponding Printed Sources** Most recent report published in 1986 summarizes 1985 data (see 11) and is entitled *Analysis Directory of Canadian Commercial Coals Supplement No. 6*
8. **Languages** Reports are available in English and French
9. **User Aids Available** None
10. **Keywords** Coal; Coal quality; Energy, Hydrocarbons, Minerals, Mining, Non-renewable energy, Non-renewable resources
11. **Additional Information**
 1. The data reflect quality values for production on a specific day but are felt to be broadly indicative of average values for general analysis purposes
 2. The report is available from Customer Service, Canadian Government Publishing Centre, Ottawa Ontario K1A 0S9
 3. The timing of the next survey and database update are undetermined

Bioenergy Information and Technology Transfer System (BITTS)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** BITTS is a national database of information on EMR-funded bioenergy installations and research and development, as well as sources of bioenergy products and expertise in Canada
- 2b **Purpose of the Database** To facilitate the retrieval and dissemination of information about bioenergy research, development and demonstration projects.
- 3a **Name and Address of Responsible Organization** Efficiency and Alternative Energy Technology Branch, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 7th Floor, 580 Booth Street, Ottawa, Ontario, K1A 0E4.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Richard Davies (613) 996-8115
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - reports on studies, installations and research and development in thermochemical, biochemical, materials handling and combustion technologies
 - each project description includes: contractor information; objectives; background; method results; financial information; and related publications
- 4b **Geographic Coverage** Canada-wide
- 4c **Data Acquisition Method(s)** Synopsis of contract documentation, supported with contractor interviews
- 4d **Geographic Unit(s) of Measurement** Individual projects
- 4e **Period of Record** 1984 to present.
- 4f **Update Frequency** Ongoing.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with CLIPPER and IPRINT
- 4h **Output Format(s) (tables, maps, etc.)** Factsheets
- 5 **Restrictions and Conditions** None
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources**
 1. *Bioenergy Projects Digest - Thermochemical Conversion.*
 2. *Bioenergy Projects Digest - Biochemical Conversion.*
 3. *Bioenergy Projects Digest - Materials Handling.*
 4. *Bioenergy Projects Digest - Combustion*
- 8 **Languages** Factsheets are available in French and English
- 9 **User Aids Available** None.
- 10 **Keywords** Anaerobic digestion; Biochemical conversion; Bioenergy; Biomass; Fuel; Thermochemical conversion; Transportation
- 11 **Additional Information** BITTS will eventually be expanded to encompass a full range of renewable or sustainable energy technologies, including solar, wind, small hydro, energy efficiency and alternative transportation fuels.

Biogeochemical Plant Database

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A database of metal concentrations in woody plant tissue for parts of Nova Scotia, B.C., and Saskatchewan.
- 2b **Purpose of the Database** To examine metal concentrations in woody plant tissue and interpret data for mineral exploration purposes.
- 3a **Name and Address of Responsible Organization** Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Colin Dunn (613) 996-2373
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - plant species (e.g. balsam fir, black spruce, douglas fir, alder, labrador tea, trembling aspen)
 - tissue sampled, date, location (UTM, latitude and longitude)
 - 35 elements including silver, gold, platinum, arsenic, zinc, uranium
- 4b **Geographic Coverage** Eastern Nova Scotia, northern Saskatchewan, southern B.C.
- 4c **Data Acquisition Method(s)** Field sampling of tree tissues.
- 4d **Geographic Unit(s) of Measurement** Individual tissue samples located by UTM or latitude and longitude.
- 4e **Period of Record** 1979 - present.
- 4f **Update Frequency** Ongoing.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with RBASE SYSTEM 5 database management system.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, maps, reports.
- 5 **Restrictions and Conditions** None; database contributors have first publication rights.
- 6 **Price Information** Price depends on request size.
- 7 **Corresponding Printed Sources**
 1. *Reconnaissance Biogeochemical Survey, Eastern Nova Scotia* (1989).
 2. Additional numerous papers and reports have been prepared covering a variety of topics.
- 8 **Languages** Database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Biotic contamination; Biotic response; Metals; Plants; Tissue metal concentration; Trees
- 11 **Additional Information**
 1. The Nova Scotia and some Saskatchewan data are from broad surveys; the other areas are studied in more detail.
 2. These data might be useful as trend indicators for environmental quality. Woody plants are long term integrators of environmental conditions.
 3. This database may be expanded to cover other areas of Canada.

Canadian Earthquake Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database of earthquake occurrences in or near Canada.
- 2b. **Purpose of the Database** To provide information about earthquake hazards in Canada and subsequent scientific and engineering studies.
- 3a. **Name and Address of Responsible Organization** Geophysics Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Mr. R. J. Wetmiller (613) 995-5548 Mrs. Janet Drysdale (613) 992-0249
 Dr. Chin Wong (613) 995-7100 Mr. M. Lamontagne (613) 995-0600
 FAX: (613) 992-6931 or 992-8836
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - earthquake time
 - epicentre
 - depth
 - magnitude
 - effects
- 4b. **Geographic Coverage** National (land and offshore areas); coverage variable with time.
- 4c. **Data Acquisition Method(s)** Historical accounts, national seismograph networks.
- 4d. **Geographic Unit(s) of Measurement** Epicentres located by latitude and longitude
- 4e. **Period of Record** 1600's - present for eastern Canada. 1800's - present for western Canada. 1900's - present for northern Canada. At this time, only data after 1928 are available.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** SUN workstations with INGRES relational database.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, bulletins, summaries.
5. **Restrictions and Conditions** None.
6. **Price Information** \$60.00 per search. Free to government agencies and universities.
7. **Corresponding Printed Sources** Quarterly and biennial publications of the Geophysics Division, GSC.
8. **Languages** The database and reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Earthquakes; Epicentres; Hazard; Risk; Seismology.
11. **Additional Information** The Geological Survey of Canada can also supply formal seismic hazard calculations as defined in the National Building Code of Canada for any site in Canada.

Canadian Permafrost Distribution and Thickness Data Collection

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database describing permafrost conditions at 1,067 locations in northern Canada
- 2b. **Purpose of the Database** To monitor climate change and provide data for engineering purposes
- 3a. **Name and Address of Responsible Organization** Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Dr. Alan Judge (613) 996-9323
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - site name
 - location (latitude, longitude)
 - elevation
 - depth permafrost
 - base of icebonded permafrost
 - transition layer
 - 0° isotherm
 - mean annual ground temperature
 - average temperature gradient through permafrost
 - lithology
 - distance to nearest water body (km)
 - other features
 - bibliographic references
- 4b. **Geographic Coverage** Permafrost zone of Canada, 1,067 locations
- 4c. **Data Acquisition Method(s)** Well logs from industry and Canada Oil and Gas Lands Administration, published literature, personal communications, field exploration
- 4d. **Geographic Unit(s) of Measurement** Individual sampling sites reference by latitude and longitude
- 4e. **Period of Record** Late 1800's - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Microcomputer with LOTUS 1-2-3
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** For data from industry there may be a two year confidentiality period
6. **Price Information** No charge
7. **Corresponding Printed Sources** Numerous papers and theses have been written drawing upon this database. They cover topics such as the history of the northern land surface, and implications for engineering in permafrost regions. The marine atlas of the Beaufort Sea (1987 GSC) contains a map of permafrost information for the Mackenzie-Beaufort Sea region
8. **Languages** The database is mostly numbers, publications are in English or bilingual
9. **User Aids Available** Data collection is described in "Canadian Permafrost Distribution and Thickness Data Collection: A Discussion", in W.T. Adams and P.G. Johnson (eds.) (1988) *Proceedings of the National Students Conference on Northern Studies, 1986* p 223-232 (held by the Association of Canadian Universities for Northern Studies)
10. **Keywords** Arctic; Climate change; Construction; Permafrost; Physiography
11. **Additional Information** None

Coal Reserves of Canada

- 1 **Datafile Name(s)** Data filed by rank, mining methods, province and mine
- 2a **Summary Description of Contents** Location, quality and lifetime of the coal reserves of Canada
- 2b **Purpose of the Database** To monitor changes in recoverable coal reserves and determine reserve lifetimes
- 3a **Name and Address of Responsible Organization** Coal Research Laboratory, CANMET, Energy Mines and Resources Canada, 1 Oil Patch Drive, Devon, Alberta, T0C 1E0
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. T. D. Brown, Director (403) 987-8214 FAX: (613) 987-3430
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - coal rank (quality)
 - likely mining methods
 - location (province)
 - mine operation (name, type, output, methods, equipment, etc.)
 - ratio of recoverable reserves to current production (lifetime)
- 4b **Geographic Coverage** National
- 4c **Data Acquisition Method(s)** Collected from companies, provincial governments and by EMR
- 4d **Geographic Unit(s) of Measurement** Provinces and coalfields
- 4e **Period of Record** 1960's - 1986
- 4f **Update Frequency** Irregular
- 4g **Database Hardware/Software Configuration** Data in a paper file
- 4h **Output Format(s) (tables, maps, etc.)** Tables, location maps.
- 5 **Restrictions and Conditions** None for reports prepared; access to the database is restricted
- 6 **Price Information** Prices for data depend on the request; for publication costs see 11.
- 7 **Corresponding Printed Sources** *Coal Mining in Canada* (see 11).
- 8 **Languages** Report available in English and French.
- 9 **User Aids Available** None
- 10 **Keywords** Coal; Coal reserves; Energy; Hydrocarbons; Minerals; Mining; Non-renewable energy; Non-renewable resources
- 11 **Additional Information**
 1. The most recent report was published in 1987 and summarizes 1986 data. It is available from Customer Service, Canadian Government Publishing Centre, Ottawa, Ontario K1A 0S9, (613) 956-4800.
 2. Whether the report series *Coal Mining in Canada* will continue is presently not decided

Database on the Panel on Energy Research and Development Expenditures

- 1 **Datafile Name(s)** One for each of the topics in 4a.
- 2a **Summary Description of Contents** Expenditure of funds from the Panel on Energy Research and Development granted to federal government departments in Canada.
- 2b **Purpose of the Database** To document expenditures of funds to be awarded to federal departments for energy research and development to support treasury board submissions.
- 3a **Name and Address of Responsible Organization** Office of Energy Research and Development, Energy Mines and Resources Canada, 580 Booth Street Ottawa, Ontario, K1A 0E4.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. L. Vancea (613) 995-6145 FAX: (613) 995-6146
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - topics include: renewable energy (active solar, hydraulics, wind, etc.); alternative transportation fuels (hydrocarbon enhancement, bitumen and heavy oil recovery, etc.); conservation; nuclear fusion; oil, gas, electricity; coal
 - federal department
 - fund allocation
 - person year allocation
 - projects
- 4b **Geographic Coverage** About 400 projects funded in federal government departments of Canada.
- 4c **Data Acquisition Method(s)** Departments apply to the panel for project funding.
- 4d **Geographic Unit(s) of Measurement** Individual projects; summaries by department.
- 4e **Period of Record** 1982 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** There are no restrictions on summarized data. Some raw data are confidential.
- 6 **Price Information** No charge for reports.
- 7 **Corresponding Printed Sources** *Panel on Energy Research and Development Expenditures*; 1989 is the most recent issue which covers 1989-1994.
- 8 **Languages** Database and reports are in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Energy; Energy research; Hydrocarbons; Renewable energy.
- 11 **Additional Information**
 1. The annual internal report contains current expenditures and projected expenditures for the following four years.
 2. Statistics Canada collects similar data for industry.

GSC Petroleum Exploration and Resources Evaluation System

1. **Datefile Name(s)** Western Canada Oil and Gas Database
- 2a. **Summary Description of Contents** A variety of information on western oil and gas reserves and resources.
- 2b. **Purpose of the Database** A national computer-aided system for estimating undiscovered petroleum resources.
- 3a. **Name and Address of Responsible Organization** Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 3303 - 33rd Street N.W., Calgary, Alberta, T2L 2A7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. P.J. Lee (403) 292-7011
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - general well information: location, starting date, completion date, oil and/or gas produced; core samples (number, depth)
 - general oil and gas pool information: location, area, thickness, porosity, material (gas, oil)
 - undiscovered petroleum resources: volume; location
- 4b. **Geographic Coverage** Western Canada.
- 4c. **Data Acquisition Method(s)** Data are obtained from provincial databases and are also generated from within the GSC.
- 4d. **Geographic Unit(s) of Measurement** Individual sites of wells and pools referenced by the Dominion Land Survey System, NTS, latitude, longitude; undiscovered resources are referenced more generally.
- 4e. **Period of Record** 1940 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** HP 3000 model 950 or PC with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, probability distributions
5. **Restrictions and Conditions** Access to raw data restricted to authorized personnel
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Reports containing raw data are confidential, but summary reports are accessible to the public. *Annual Report - A Summary of Pool Sizes by Number and by Year for the Western Canada Basin*
8. **Languages** The reports are in English
9. **User Aids Available** A documentation binder has been prepared for internal use. This can be viewed at the GSC office
10. **Keywords** Alberta; British Columbia; Energy; Exploration; Extraction; Gas; Hydrocarbons; Manitoba; Minerals; Non-renewable resources; Oil; Saskatchewan
11. **Additional Information** None.

Mackenzie Valley Geotechnical Database

1. **Datefile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Geotechnical data on soils, permafrost and ground ice from over 11,000 boreholes drilled in the Mackenzie Valley
- 2b. **Purpose of the Database** To assess permafrost, soil, ground ice occurrence and distribution in order to predict and prevent engineering problems associated with permafrost and global change
- 3a. **Name and Address of Responsible Organization** Terrain Sciences Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa Ontario, K1A 0E8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. M. Burgess (613) 996-9317 Mr. A. Heginbottom (613) 992-7813
FAX: (613) 992-2468
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)** For each borehole the following information may be provided
 - location (NTS map, UTM coordinates)
 - drilling record: date; method; purpose; elevation; thaw depth; surficial geology genetic category
 - data on up to 18 soil horizons: material grain size; moisture content; liquid and plastic limits; density; saturation; permafrost/ice
- 4b. **Geographic Coverage** Mackenzie Delta and Valley
- 4c. **Data Acquisition Method(s)** Data are obtained from geotechnical reports from consulting firms and government departments (especially the Department of Public Works)
- 4d. **Geographic Unit(s) of Measurement** NTS map number and UTM coordinates
- 4e. **Period of Record** Historical to mid-1970's
- 4f. **Update Frequency** Last updated in 1975, update scheduled in 1990
- 4g. **Database Hardware/Software Configuration** Original configuration required mainframe computer; update is underway for data storage and management on a microcomputer
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, plots, listings, (borehole logs soon to be available)
5. **Restrictions and Conditions** No restrictions on data on 9-track tapes. Proposed microcomputer formats may involve restrictions because of industry involvement and software
6. **Price Information** Data are available on tape for copying costs
7. **Corresponding Printed Sources** None
8. **Languages** The database is in English
9. **User Aids Available** None
10. **Keywords** Boreholes, Geotechnical, Ice, Permafrost; Soils
11. **Additional Information** None

Macrofossil Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A national database on macrofossils and their paleoenvironmental interpretation
- 2b **Purpose of the Database** To reconstruct paleoclimatic conditions and assess climatic trends
- 3a **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Matthews (613) 996-6371 FAX: (613) 996-2462
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - sample number
 - location (latitude, longitude, province, town, UTM), date
 - fossils (seeds, plant parts, insects)
 - extraction methods
 - background material
 - paleoenvironmental interpretation
 - submitter, collector
 - related information (reports, other analyses done)
- 4b **Geographic Coverage** National, concentrating on the Northwest Territories and Yukon.
- 4c **Data Acquisition Method(s)** Fieldwork and sample analysis
- 4d **Geographic Unit(s) of Measurement** Individual samples referenced by latitude, longitude, UTM
- 4e **Period of Record** 1970 - present.
- 4f **Update Frequency** As samples received
- 4g **Database Hardware/Software Configuration** MACINTOSH microcomputer with ODESK HELIX software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text
- 5 **Restrictions and Conditions** None (as long as report has been completed). Database contains uncompleted reports as well as completed reports.
- 6 **Price Information** None.
- 7 **Corresponding Printed Sources** Numerous scientific papers - see contact person.
- 8 **Languages** Papers are in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biotic response; Climate change; Fossils.
- 11 **Additional Information** This database might be used as a proxy indicator of climate change

Mass Balance of Four Arctic Ice Caps and Glaciers

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Snow accumulation and ice melt data for four glaciers/ice caps in the high Arctic.
- 2b **Purpose of the Database** To monitor climatic trends in the high Arctic.
- 3a **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Fritz Koerner (613) 996-7623 FAX: (613) 996-9990
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - annual snow accumulation
 - annual ice melt
 - location (latitude, longitude)
 - elevation
- 4b **Geographic Coverage** Melville Island, Devon Island, Ellesmere Island (Meighen ice cap, Agassiz ice cap).
- 4c **Data Acquisition Method(s)** Field observations.
- 4d **Geographic Unit(s) of Measurement** Individual glaciers/ice caps located by latitude and longitude.
- 4e **Period of Record** 1959 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Numerous mass balance papers that report data and discuss the uses of the data. Data are published in reports of the World Service on the Fluctuations of Glaciers that has its headquarters in Switzerland.
- 8 **Languages** Papers are in English; database is mostly numbers.
- 9 **User Aids Available** None.
- 10 **Keywords** Arctic; Climate change; Glaciers; Ice; Snow.
- 11 **Additional Information**
 1. There are plans to put this database on an IBM compatible microcomputer with custom software.
 2. This database might be useful as a proxy climatic indicator.

Mineral Deposits Information System (MINSYS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An index for, and general information about, mineral records filed under the National Mineral Inventory for Canada
- 2b. **Purpose of the Database** To provide an index system for mineral deposit data held on record cards (National Mineral Inventory).
- 3a. **Name and Address of Responsible Organization** Mineral Policy Sector, Energy, Mines and Resources Canada, 460 O'Connor Street, Ottawa, Ontario, K1A 0E4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Lise Hubert (613) 995-7394 FAX: (613) 943-8453
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - mineral commodities present, deposit name and discovery year
 - geological data
 - location (latitude, longitude, NTS)
 - first (and last) production year
 - status (minor occurrence through currently producing mine)
 - work done (drilling, geochemical, underground)
 - cross-reference to provincial inventory system
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Deposit information from federal and provincial governments, corporations and the literature.
- 4d. **Geographic Unit(s) of Measurement** Individual deposits by latitude and longitude, NTS
- 4e. **Period of Record** Late 1800's to 1991, continuous since 1959.
- 4f. **Update Frequency** Updating activity has been cancelled.
- 4g. **Database Hardware/Software Configuration** Data are available on diskettes, in DBASE IV or ASCII format, accessible through DOS, on microcomputers.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Normal copyright protection
6. **Price Information** MINSYS is available on diskette for \$250
7. **Corresponding Printed Sources** National Mineral Inventory Cards are available at \$1 per card.
8. **Languages** The database content is in English; record cards are available in French or English.
9. **User Aids Available** Coding guide and database description
10. **Keywords** Extraction; Metals; Minerals; Mining; Non-renewable resources.
11. **Additional Information**
 1. Provide lists of relevant record cards, photocopies of which may be obtained
 2. A related database called CANMINDEX contains records of National Mineral Inventory sites visited and studies conducted by EMR geologists. Dave Garson is the contact for CANMINDEX (992-9822).

National Geochemical Reconnaissance Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database of geochemical data for stream, lake water and sediments.
- 2b. **Purpose of the Database** To provide geochemical data for mineral exploration purposes and monitoring data for natural surface concentrations of metals
- 3a. **Name and Address of Responsible Organization** Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. E. H. Hornbrook (613) 992-6559 Dr. Peter Friske (613) 992-1503
FAX: (613) 996-3726
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - water (lakes, streams): uranium, fluoride, (limited calcium, magnesium data); alkalinity, pH
 - sediments: base metals; other elements (uranium, arsenic, mercury, barium, cadmium, gold, iron, etc.); loss on ignition; description
 - both water and sediment: location (UTM, latitude and longitude); sampling date; lake size; underlying geology; analytical methods, analytical accuracy and precision
- 4b. **Geographic Coverage** At present 2.1 million square kilometres (about 185,000 lakes and streams) are covered including parts of all provinces and territories
- 4c. **Data Acquisition Method(s)** Analysis of field samples, collected generally on a one-time basis
- 4d. **Geographic Unit(s) of Measurement** Individual sample sites located by UTM
- 4e. **Period of Record** 1973 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** PC and VAX based with ORACLE software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, summary statistics
5. **Restrictions and Conditions** None
6. **Price Information** Depends on the size of the request
7. **Corresponding Printed Sources** Numerous reports giving data listings and maps covering geological and element content have been published. Some trend maps are also available
8. **Languages** The database and reports are in English
9. **User Aids Available** See descriptive portion of reports
10. **Keywords** Geochemical analyses; Metals, Minerals, Sediments, Water
11. **Additional Information**
 1. This database is in the process of being reformatted using ORACLE with custom software to make it more relational and more publicly oriented
 2. A national, multimedia, low density (less comprehensive than current database) sampling program for surface geochemical data is under consideration

National Geothermal Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A national database on deep subsurface temperature with records from 600 sites
- 2b **Purpose of the Database** Data collected for use in mine design, drilling strategies, well design, correcting geophysical profiles, examining groundwater resources and pollutant movement, tectonic research and assessing climate change.
- 3a **Name and Address of Responsible Organization** Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent Ottawa, Ontario, K1A 0Y3
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Alan Judge (613) 996-9323
- 3c **Access Mechanisms** Through the responsible agency
- 4a **Variables Included (summarized if extensive)**
 - subsurface temperature, depth
 - date, location (latitude, longitude)
 - geological data
 - elevation
 - description of surface conditions (exposed bed rock, soil cover, artificial pad)
- 4b **Geographic Coverage** National, 600 sites, some sites offshore.
- 4c **Data Acquisition Method(s)** Field temperature collection by the Department; geological information from industry and literature sources
- 4d **Geographic Unit(s) of Measurement** Individual recording sites referenced by latitude, longitude
- 4e **Period of Record** 1950's - present
- 4f **Update Frequency** Daily - annually, depending on station.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** For data from industry there may be a two year confidentiality period
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Numerous papers in scientific journals. Thirteen reports in the Geothermal Series published by the Department (1975 - 1986).
- 8 **Languages** The database is mainly numbers; the early reports are in English, the later ones are bilingual
- 9 **User Aids Available** Information on site establishment and data collection methods is provided in available publications.
- 10 **Keywords** Geology; Geothermal; Ground temperature; Soils.
- 11 **Additional Information**
 1. Temperature data are collected from boreholes and wells drilled by the mining industry, oil industry and special programs.
 2. In stations added to the system since 1985, continuous temperature loggers have been installed that record temperature up to six times a day in the upper regions of the holes
 3. Explanatory publications: a) *The Norman Wells Pipeline Monitoring Sites - Ground Temperature Data File 1986*. Geological Survey of Canada, Open File Report 1621, 1987.
b) *The Norman Wells Zama Oil Pipeline Permafrost Terrain Research and Monitoring Program: Site Establishment Report*. Geological Survey of Canada, Open File Report 2044, 1989
c) *Canadian Geothermal Data Collection - Northern Wells, 1981*. Geothermal Series #13, Energy, Mines and Resources Canada, 1982

Paleoclimate Ice Core Data

- 1 **Datafile Name(s)** CORE-DAT
- 2a **Summary Description of Contents** Data on ice layers and their composition for over 100,000 years from ice cores collected on Ellesmere Island.
- 2b **Purpose of the Database** To study past climate and offer a broad base for analysis of current climate change.
- 3a **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Fritz Koerner (613) 996-7623 Dr. David A. Fisher (613) 996-7623
FAX: (613) 996-9990
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - stable isotopes
 - ice layers
 - ions (e.g. sulphates, nitrates, chlorides, calcium, potassium, magnesium)
 - insoluble microparticles
 - pollen
 - core location (latitude, longitude)
 - date (up to 100,000 years BP)
- 4b **Geographic Coverage** High Arctic; Queen Elizabeth Islands; Devon Island; Ellesmere Island; Greenland (Camp Century, DYE-3); Antarctica (Vostok).
- 4c **Data Acquisition Method(s)** Samples from nine ice cores taken from three locations.
- 4d **Geographic Unit(s) of Measurement** Cores located by latitude, longitude.
- 4e **Period of Record** 100,000 years ago - present.
- 4f **Update Frequency** Every few years.
- 4g **Database Hardware/Software Configuration** Mainframe computer with custom software. Microcomputer (IBM).
- 4h **Output Format(s) (tables, maps, etc.)** Tables, floppy diskettes.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Numerous reports covering topics such as increasing acid levels in high Arctic snow (2 papers), climate records from ice cores (20-30 papers).
- 8 **Languages** Reports are in English; database is mostly numbers.
- 9 **User Aids Available** Index, catalogue.
- 10 **Keywords** Arctic; Climate; Climate change; Global warming; Ice; Ice cores.
- 11 **Additional Information** A database covering analysis of snow deposition for the past 100 years is being developed.

Paleoecological Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on fossil woods, pollen, diatoms and macrofossils and their paleoenvironmental interpretation. Raw pollen counts for palynological sites.
- 2b. **Purpose of the Database** To reconstruct local vegetation and paleoenvironmental conditions through time.
- 3a. **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. H       Jett   (613) 992-7301 FAX: (613) 996-9990
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - sample number
 - location (latitude, longitude, province, town) date
 - fossils (pollen counts, wood identification; plant remains, insects, diatoms)
 - paleoenvironmental interpretation
 - submitter, collector, depth in core
 - C-14 dates when available
 - released information (reports, other analyses done)
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Field work, sampling cores, samples analysis, literature
- 4d. **Geographic Unit(s) of Measurement** Individual samples referenced by latitude and longitude.
- 4e. **Period of Record** 1960 to present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Microcomputer (MS-DOS) using RBASE and CARDBOX-PLUS software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, lists, references, maps
5. **Restrictions and Conditions** Samples analyzed more than 2 years ago are in the public domain.
6. **Price Information** Not applicable.
7. **Corresponding Printed Sources** Numerous scientific papers
8. **Languages** References, scientific papers are in English and French
9. **User Aids Available** On request
10. **Keywords** Arthropods; Biota; Bryophytes; Diatoms; Fossils; Plants; Pollen; Wood
11. **Additional Information** The database is presently being used to generate paleovegetation reconstruction maps.

Pollen Data

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Annual pollen samples and historical data collected on pollen composition in cores from northern Canada covering the past 100,000 years
- 2b. **Purpose of the Database** Data provide an indication of local vegetation and climate south of the tree line.
- 3a. **Name and Address of Responsible Organization** Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Fritz Koerner (613) 996-7623 FAX: (613) 996-9990
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - pollen type (species)
 - depth in core (time)
 - number of grains
 - core location (latitude, longitude), date
 - surface elevation
- 4b. **Geographic Coverage** Cores from a variety of locations in Canada, north of 60 degrees latitude
- 4c. **Data Acquisition Method(s)** Field surface sampling, sampling cores
- 4d. **Geographic Unit(s) of Measurement** Sampling sites located by latitude and longitude
- 4e. **Period of Record** Data from 100,000 years ago - present, database initiated in 1975
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Mainframe computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables graphic profiles
5. **Restrictions and Conditions** None
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Numerous publications in scientific journals covering topics such as air mass tracing, time scale guides, and climate change as deduced from pollen composition changes
8. **Languages** Papers are in English, database is mostly numbers
9. **User Aids Available** None
10. **Keywords** Arctic; Biotic response; Climate change, Pollen
11. **Additional Information**
 1. The database is being put on an IBM compatible microcomputer
 2. This database might be used as a proxy indicator of climate change

Quaternary Geology Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** National database of geochemical, lithological, and textural data on glacial sediments in several regions of Canada.
- 2b **Purpose of the Database** To provide support for mineral exploration and provenance studies of glacial sediments, the establishment of geochemical baseline and hazards, and the estimation of acid rain sensitivity.
- 3a **Name and Address of Responsible Organization** Terrain Sciences Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Robert Belanger (613) 992-1856 FAX: (613) 992-2468
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - trace and minor element contents (e.g., Cu, Pb, Zn, Co, Ni, Cr, As, Mo, U, Mn, plus others)
 - carbonate and organic carbon contents
 - description of sediment
 - location of sample site (latitude, longitude)
- 4b **Geographic Coverage** Several thousand samples collected from the Arctic islands to southern Canada.
- 4c **Data Acquisition Method(s)** Areas included depend on which areas are being mapped/sampled by Division staff, data are included as they are compiled.
- 4d **Geographic Unit(s) of Measurement** Each sample and its data represent a specific site referenced by latitude and longitude.
- 4e **Period of Record** 1971 - present.
- 4f **Update Frequency** Sporadic; data are entered as projects are completed.
- 4g **Database Hardware/Software Configuration** IBM microcomputer with RBASE software; data exported in several formats.
- 4h **Output Format(s) (tables, maps, etc.)** Maps, tables; on disk.
- 5 **Restrictions and Conditions** None; once GSC has published a data set, it is freely available
- 6 **Price Information** No charge for small requests.
- 7 **Corresponding Printed Sources** Some data sets have been published in reports of the Geological Survey of Canada.
- 8 **Languages** The database is in English.
- 9 **User Aids Available** A short written description of the database is available.
- 10 **Keywords** Geochemistry; Geology; Glacial sediments; Physiography; Sediments.
- 11 **Additional Information** None.

Radiocarbon Database
(Date Locator File)

- 1 **Datafile Name(s)** Radiocarbon database.
- 2a **Summary Description of Contents** A national database of information on radiocarbon dated samples.
- 2b **Purpose of the Database** To provide dates and data to Quaternary scientists working in Canada.
- 3a **Name and Address of Responsible Organization** Radiocarbon Dating Laboratory, Terrain Sciences Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. R. McNeely (613) 995-4241 FAX: (613) 996-9990
- 3c **Access Mechanisms** Interactive through the responsible agency.
- 4a **Variables Included (summarized if extensive)**
 - age (C-14 date)
 - locality
 - latitude, longitude, NTS
 - elevation
 - submitter/collector, collection date
 - material, taxon
 - significance
 - associated dates
 - additional information
 - references and comments
- 4b **Geographic Coverage** All Canada (national) plus adjoining states and countries.
- 4c **Data Acquisition Method(s)** Data submitted by users and other C-14 labs in Canada.
- 4d **Geographic Unit(s) of Measurement** Individual collection sites referenced by latitude, longitude, NTS.
- 4e **Period of Record** 1960 - present.
- 4f **Update Frequency** Annual.
- 4g **Database Hardware/Software Configuration** Microcomputer (MS-DOS) using CARDBOX-PLUS software.
- 4h **Output Format(s) (tables, maps, etc.)** Lists, tables, maps within a year.
- 5 **Restrictions and Conditions** Samples dated more than 2 years ago are in the public domain.
- 6 **Price Information** Not applicable.
- 7 **Corresponding Printed Sources** Annual GSC radiocarbon date list.
- 8 **Languages** Indexed parameters are in English; other fields, including comments, are in the language submitted.
- 9 **User Aids Available** See reference below.
- 10 **Keywords** Archaeology; Climate change; Deglaciation; Radiocarbon dating; Sea level change.
- 11 **Additional Information**
 1. McNeely R. (1985). "The Geological Survey of Canada Date Locator File: A Progress Report", in *Current Research*, Part B, GSC Paper 85-1B, p. 471-473.
 2. This database is currently a GSC database but will soon become the Canadian component of the International Radiocarbon Database.

Shallow Ground Temperature Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on shallow ground temperature for northern Canada.
- 2b. **Purpose of the Database** To monitor global climate change as reflected by ground temperature.
- 3a. **Name and Address of Responsible Organization** Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Alan Judge (613) 996-9323
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - site name, location (latitude, longitude)
 - elevation
 - period of observation
 - information source
 - air temperature: mean annual; monthly maximum/minimum and month
 - snowfall: average annual; month of maximum; maximum thickness snow cover; duration snow cover
 - annual ground temperature (mean, depth)
 - vegetation type
 - earth surface material
 - depth active layer
 - permafrost region
 - bibliographic references
- 4b. **Geographic Coverage** Permafrost regions of Canada- central and northern Québec, northern Ontario, Manitoba, Saskatchewan, Alberta, B.C., Yukon and N.W.T.
- 4c. **Data Acquisition Method(s)** Field data, literature reports, information from industry
- 4d. **Geographic Unit(s) of Measurement** Individual stations located by latitude and longitude.
- 4e. **Period of Record** Late 1800's - present
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Microcomputer with LOTUS 1-2-3
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** For data from industry there may be a two year confidentiality period.
6. **Price Information** No charge
7. **Corresponding Printed Sources** There is a variety of publications that incorporate data from this database, but none draws exclusively from this database
8. **Languages** The database is mostly numbers; publications are in English
9. **User Aids Available** *A Ground Temperature Data Collection for Northern Canada* Occasional Paper #12, Dept. of Geography, Trent University and Research Report No. 41 of the McGill Centre for Northern Studies (pg. 195-207), 1987
10. **Keywords** Climate; Climate change; Ground temperature; Permafrost; Soils
11. **Additional Information** None.

Wood Identification Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** An national database on fossil woods identifications linked with radiocarbon dates
- 2b. **Purpose of the Database** To prepare paleo-distribution maps
- 3a. **Name and Address of Responsible Organization** Geological Survey of Canada, Energy, Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0E8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. R.J. Mott (613) 992-0644
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - sample number
 - location (latitude, longitude, province, town)
 - fossil wood identifications
 - submitter, collector
 - C-14 dates when available
- 4b. **Geographic Coverage** National
- 4c. **Data Acquisition Method(s)** Sample analysis
- 4d. **Geographic Unit(s) of Measurement** Individual samples referenced by latitude and longitude
- 4e. **Period of Record** 1960 to present
- 4f. **Update Frequency** As samples received
- 4g. **Database Hardware/Software Configuration** Microcomputer (MS-DOS) using CARDBOX-PLUS software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text, reports
5. **Restrictions and Conditions** Samples identified more than 2 years ago are in the public domain
6. **Price Information** Not applicable
7. **Corresponding Printed Sources** Geological Survey of Canada Wood Identification Reports
8. **Languages** Database is in English
9. **User Aids Available** On request
10. **Keywords** Fossils, Radiocarbon dating, Wood
11. **Additional Information** The database is presently being used to generate paleovegetation reconstruction maps

Worldwide Earthquake Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** An international database of earthquake occurrence in the world
- 2b. **Purpose of the Database** To provide information about earthquake hazards around the world
- 3a. **Name and Address of Responsible Organization** Geophysics Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. R. J. Wetmiller (613) 995-5548 Ms. J. A. Drysdale (613) 992-0249
FAX: (613) 992-6931
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - earthquake time and epicentre
 - depth
 - magnitude
 - effects
- 4b. **Geographic Coverage** Worldwide, larger earthquakes only.
- 4c. **Data Acquisition Method(s)** Historical accounts, international seismograph networks.
- 4d. **Geographic Unit(s) of Measurement** Epicentres located by latitude and longitude.
- 4e. **Period of Record** 1900's - present.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** VAX or SUN workstations with INGRESS relational database.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** None.
6. **Price Information** \$50.00 per search.
7. **Corresponding Printed Sources** *Preliminary Determination of Epicentres*, published by the U.S. National Earthquake Information Service, Boulder, Colorado
8. **Languages** The database and reports are in English.
9. **User Aids Available** None.
10. **Keywords** Earthquakes; International; Seismology.
11. **Additional Information** The Geological Survey of Canada can also supply formal seismic hazard calculations as defined in the National Building Code of Canada for any site in Canada.

ENVIRONMENT CANADA

<i>Environment Canada</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ACID PRECIPITATION NETWORK PHYSIOGRAPHIC INFORMATION ON QUEBEC	Mr. André Bouchard (418) 649-6509	46
ACID RAIN AGGREGATE CHEMISTRY DATA	Dr. Dean Jeffries (416) 336-4969	46
AIR POLLUTANTS COMPENDIUM (COMP)	Mr. Tom Furmanczyk (819) 994-3128	47
ARTIFACT INFORMATION SYSTEM (AIS)	Mr. Roger McNicoll (613) 993-5526	47
ATLANTIC CANADA GROUND WATER DATA (G W DAT)	Mr. John Gibb (902) 426-1698 Mr. Frank Cruickshanks (902) 426-6885	48
ATLANTIC SHELLFISH GROWING AREA DATABASE (ASGAD)	Mr. Christopher Roberts (902) 426-4482	48
ATLAS OF SASKATCHEWAN BIRDS	Mr. Al Smith (306) 975-4091	49
AUTOMATED WATER QUALITY MONITORING DATA	Mr. Bill Gummer (306) 780-5322	49
AVIAN CENSUS PLOTS	Ms. Kathryn Dickson (819) 953-1415	50
AVIAN USE OF AGROHABITATS	Ms. Kathy Freemark (819) 997-6082	50
BACKGROUND AIR POLLUTION MONITORING NETWORK (BAPMON)	Dr. Marlene L. Phillips (416) 739-4449	51
B.C. DISCHARGE INVENTORY DATABASE	Mr. Alain David (604) 666-2699	51
BIRD BANDING AND RECOVERY DATABASE	Ms. Ellen Hayakawa (819) 953-1425	52
BIRD NAMES	Ms. Kathryn Dickson (819) 953 1415	52
BREEDING BIOLOGY AND HABITAT OF PRAIRIE DUCKS	Dr. Robert Clark (306) 975 4110	53
BULLETIN pH	Mr. Gilles Morneau (514) 283-1106	53
CANADA GEOGRAPHIC INFORMATION SYSTEM (CGIS)	Mr. Ernie Beaudette (819) 953-1467	54
CANADIAN AIR AND PRECIPITATION MONITORING NETWORK (CAPMON)	Dr. Marlene L. Phillips (416) 739-4449	54
CANADIAN COUNCIL OF MINISTERS OF THE ENVIRONMENT PCB INVENTORY	Mr. J. Stevenson (819) 994-0599	55
CANADIAN GREAT LAKES COASTAL ZONE DATABASE (GLCZDB)	Mr. William Bien (416) 336-4948	55
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CHEMICAL PROFILES DATABASE - SCHEDULE II TRANSPORTATION OF DANGEROUS GOODS (CHEMPROF)	Mr. Luke Trip (819) 953-3415	56
CANADIAN PARKS SERVICE (CPS) BASIC RESOURCE INVENTORY	Ms Nicole Sarrazin (819) 994 5523	57
CITES (CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES) IMPORT/EXPORT PERMITS	Mr. Jean Robillard (819) 997-1840	58

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COMMITTEE ON THE STATUS OF ENDANGERED WILDLIFE IN CANADA DATABASE	Ms. Sylvia Normand (819) 997-4991	59
CONSERVATION AREAS DATABASE	Mr. Ernie Beaudette (819) 953-1467	60
CO-OPERATIVE BREEDING BIRD SURVEY	Ms. Ellen Hayakawa (819) 953-1425	60
CURRENT METER SYSTEM	Mrs. Jo-ann Hodson (416) 336-4627 Mr. Maurice Kerman (416) 336-4945	61
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FERROUS FOUNDRY DATABASE	Mr. Bill Blakeman (819) 953-1105	63
FLOOD RISK MAPPING - ATLANTIC REGION	Mr. Thomas Humes (902) 426-3266	64
FLOOD STUDIES DATA	Mr. M.A. Shaw (416) 336-4957	64
FRESHWATER DATABASE	Mr. Bryan Kelso (604) 666-5193	65
FUEL ADDITIVES DATABASE	Mr. Bernard Madé (819) 953-1135	65
FUNDY, GULF OF MAINE, GEORGES BANK RESOURCE AND ENVIRONMENTAL DATABASE	Mr. A.R. McIver (902) 426-9300	66
GLACIER MASS BALANCE	Dr. M. Brugman (306) 975-5966	66
GREAT LAKES HYDROLOGIC AND HYDRAULIC DATA	Mr. P. Yee (613) 938-5725	67
GREAT LAKES SEDIMENT DATA (GLSEDS)	Dr. Norman A. Rukavina (416) 336-4880	67
GREAT LAKES WATER QUALITY DATABASE (STAR)	Mr. Bob Duffield (416) 336-4911	68
HISTORICAL MANUFACTURING CENTRES PROJECT	Mr. Jean-Claude Parent (819) 997-0530	68
HISTORIC SITES AND MONUMENTS BOARD OF CANADA/SYSTEMS PLANNING (HSMBC/SP)	Mr. Douglas Sullivan (819) 997-4038	69
HYDROMETRIC DATA FILE	Mr. Doug Kirk (819) 953-1564	69
ICE CONCENTRATIONS GRID POINTS DATABASE	Mr. David Mudry (613) 996-4214	70
ICE THICKNESS POINT DATA	Mr. Phil Côté (613) 996-4353	70
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LAKE SUPERIOR SHORE PROPERTY INVENTORY AND DAMAGE SURVEY	Mr. William Bien (416) 336-4948	75
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MARITIMES BREEDING BIRD ATLAS	Dr. A. J. Erskine (506) 536-3025	79
MAY BREEDING POPULATION SURVEY - WATERFOWL	Mr. Dale Caswell (204) 983-5260	79
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MIGRATORY BIRDS	Mr. T. Coleman (403) 468-8908	80
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NATIONAL WATER QUALITY DATABASE (NAQUADAT)	Mr. Peter Brooksbank (819) 997-3424	86
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OCEAN DUMPING DATABASE SYSTEM PACIFIC AND YUKON REGION	Mr. J. Karau (819) 953-1699	90
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OZONE DEPLETING SUBSTANCES: TRADE AND USE	Mr. Yves Bovet (819) 953-1668	91
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WORLD OZONE DATABASE	Mr. L.R. Morrison (416) 889-7275	108

Acid Precipitation Network Physiographic Information on Quebec

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Physiographic information on watersheds and lakes from the monitoring network of surface water acidification.
- 2b **Purpose of the Database** Establish the relationships between conditions in a watershed and reactions of land and water to acidic deposition from the atmosphere.
- 3a **Name and Address of Responsible Organization** Inland Waters Directorate, Conservation and Protection, Quebec Region, Environment Canada, 8th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Quebec, G1V 4H5.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. André Bouchard (418) 649-6509 FAX: (418) 648-4613
- 3c **Access Mechanisms** Through the responsible organization; it is possible to obtain information in machine readable format.
- 4a **Variables Included (summarized if extensive)** The following are measured:
 - geology: rock type; nature of alterability
 - physiography: slope and drainage
 - pedology:
 - grain size
 - chemistry; major ions; capacity for cation exchange (CEC); metals
 - minerals
 - forest cover: type and structure.
- 4b **Geographic Coverage** A zone of 150 km between the Ottawa River and the Saguenay River 35 sites inventoried; 6 additional in progress; 25 sites will likely be inventoried also.
- 4c **Data Acquisition Method(s)** Geologic maps. Photo interpretation. 3 pedons in each basin
- 4d **Geographic Unit(s) of Measurement** Data by river basin.
- 4e **Period of Record** 1980 - to date
- 4f **Update Frequency** Varies according to the samples.
- 4g **Database Hardware/Software Configuration** IBM PC. Floppy and hard disk. KNOWLEDGEMAN
- 4h **Output format(s) (tables, maps, etc.)** Tables. Maps of forest cover and soil profiles are available
- 5 **Restrictions and Conditions** No restrictions.
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** Technical reports; bibliography.
- 8 **Languages** Documents, map titles and map legends are in French
- 9 **User Aids Available** None.
- 10 **Keywords** Acid precipitation; Hydrometeorology; Precipitation chemistry; Quebec.
- 11 **Additional Information**
 1. An internal validation system is used.
 2. The database on diskette is available in ASCII format.
 3. Copies of maps and soil profiles are more complicated to retrieve. Any of these retrievals will depend on the availability of personnel.

Acid Rain Aggregate Chemistry Data

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Trace metal and major ion data for lakes in Eastern Canada.
- 2b **Purpose of the Database** Water chemistry data compiled to prepare the 1990 acid rain assessment under the LRTAP (Long Range Transport of Air Pollutants) Program.
- 3a **Name and Address of Responsible Organization** Rivers Research Branch, Conservation and Protection, Environment Canada, P.O. Box 5050, Burlington, Ontario, L7R 4A6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Dean Jeffries (416) 336-4969 FAX: (416) 336-4989
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - major ions (calcium, magnesium, sodium, potassium, sulphate, nitrate, chloride)
 - trace metals (aluminum, iron, manganese, zinc, copper)
 - alkalinity
 - pH
 - lake area
 - drainage basin area
- 4b **Geographic Coverage** Ontario, Quebec, Atlantic provinces.
- 4c **Data Acquisition Method(s)** Field surveys; data collected by federal and provincial environment ministries
- 4d **Geographic Unit(s) of Measurement** Lakes referenced by latitude, longitude and Water Survey of Canada watershed designations.
- 4e **Period of Record** 1980 - 1988.
- 4f **Update Frequency** No longer updated.
- 4g **Database Hardware/Software Configuration** CDC CYBER mainframe, IBM PC, custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** No restrictions on federal data; provincial data should be obtained from the provinces.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources**
 1. National Water Research Institute reports by A.S. Fraser which describe database and methodologies.
 2. LRTAP Effects on the Canadian Environment- Aquatic Effects (8-part report).
- 8 **Languages** Reports and database are in English.
- 9 **User Aids Available** See source 1 in 7.
- 10 **Keywords** Acid precipitation; Air pollution; Lakes; Ontario; Quebec; New Brunswick; Nova Scotia; Prince Edward Island; Water quality.
- 11 **Additional Information**
 1. This database was created solely for the 1990 acid rain assessment. The responsible organization will continue to monitor surface water quality, but will send the data to the National Water Quality Database in Ottawa.
 2. The data in this database are summarized in the database "Eastern Canada Water Chemistry Median Synopsis Database" also held by the responsible organization.

Air Pollutants Compendium (COMP)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on common air pollutants (sulphur dioxide, nitrogen oxides, carbon monoxide, hydrocarbons, particulate matter) summarized on an economic sector and provincial basis.
- 2b. **Purpose of the Database** To generate emission estimates for five common air pollutants for 10 year trend analysis.
- 3a. **Name and Address of Responsible Organization** Pollution Data Analysis, Environmental Protection, Conservation and Protection, Environment Canada, 18th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Tom Furmanczyk (819) 994-3128 FAX: (819) 953-9542
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - sulphur dioxide
 - nitrogen oxides
 - carbon monoxide
 - total hydrocarbons
 - particulate matter
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Data calculated based on information from the Residual Discharge Inventory System (RDIS) database.
- 4d. **Geographic Unit(s) of Measurement** Country, provinces, territories
- 4e. **Period of Record** 1970 - present.
- 4f. **Update Frequency** Every 2 years.
- 4g. **Database Hardware/Software Configuration** COMPAQ PC 286 microcomputer using DBASE IV software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Contact responsible organization
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Trends in Common Air Contaminants in Canada, 1970 - 1980*. Report EPS 7/AP/17, available from the responsible organization.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Air pollution; Air quality; Emissions; Industry; Motor vehicles
11. **Additional Information** The information in the database is derived from Standard Industrial System values.

Artifact Information System (AIS)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Description, location, source, registration number, etc., for Canadian Parks Service artifacts
- 2b. **Purpose of the Database** To provide a comprehensive inventory of the Canadian Parks Service collection of artifacts throughout Canada and the national historic sites
- 3a. **Name and Address of Responsible Organization** National Historic Parks and Sites Directorate, Canadian Parks Service, Environment Canada, 2630 Sheffield Road, Ottawa, Ontario, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Roger McNicoll (613) 993-5526 FAX: (613) 990-6627
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - registration number
 - method/date of acquisition
 - period
 - free text/description
 - condition
 - location/date
 - historic object or reproduction
- 4b. **Geographic Coverage** National, all historic object and reproduction holdings are identified for all site, regional and headquarters collections
- 4c. **Data Acquisition Method(s)** Through each regional and headquarters collections management unit
- 4d. **Geographic Unit(s) of Measurement** The physical location for each object and reproduction is identified
- 4e. **Period of Record** 1963 - present (registration process) 1700's - present (collection)
- 4f. **Update Frequency** As required (i.e. new objects acquired and inventories reviewed)
- 4g. **Database Hardware/Software Configuration** Departmental mainframe (AES-Downsview) running on M204 model database, linked by DATAPAC communications lines to PHQ and regional offices (each has a terminal and slave printer)
- 4h. **Output Format(s) (tables, maps, etc.)** Five internal year-end reports with tables cover artifact movement, deletion, loans and write-offs/transfers
5. **Restrictions and Conditions** There is no restriction on information availability except for cost and source data, database access restricted to department personnel
6. **Price Information** Cost recovery policy
7. **Corresponding Printed Sources** None
8. **Languages** English and French
9. **User Aids Available** User manuals, database documentation
10. **Keywords** Artifacts, Historic sites, National parks
11. **Additional Information** None

Atlantic Canada Ground Water Data (G W DAT)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Physical and administrative data on water wells drilled, aquifer testing and aquifer parameters in Atlantic Canada.
- 2b **Purpose of the Database** To provide physical data for groundwater resource management for federal facilities, CEPA, and joint federal/provincial studies.
- 3a **Name and Address of Responsible Organization** Water Resources Directorate, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, New Brunswick, B2Y 2N6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Gibb (902) 426-1698 FAX: (902) 426-4457
Mr. Frank Cruickshanks (902) 426-6885 FAX: (902) 426-4457
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - depth
 - casing construction
 - location
 - owner, driller
 - purpose (domestic, industrial, exploratory)
 - geological strata
 - whether pumping tests were performed (start time, duration, end)
 - whether geophysical tests were conducted
 - whether water quality data are available
- 4b **Geographic Coverage** Atlantic Canada.
- 4c **Data Acquisition Method(s)** Information obtained from field surveys; provincial waterwell records; federal, provincial and industry files.
- 4d **Geographic Unit(s) of Measurement** Individual wells referenced by UTM grid, province, county, nearest community.
- 4e **Period of Record** 1965 - present (data). 1991 - present (database).
- 4f **Update Frequency** As required
- 4g **Database Hardware/Software Configuration** VAX, ORACLE
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** Database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Atlantic Canada; Groundwater; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island; Stratigraphy; Water; Wells
- 11 **Additional Information**
 1. This database is designed to link with SPANS groundwater models, STATGRAPHICS and HARVARD GRAPHICS
 2. Corresponding chemical data for water wells can be found in the National Water Quality Database in Ottawa which can be downloaded to or uploaded from G W DAT.

Atlantic Shellfish Growing Area Database (ASGAD)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A compendium of bacterial water quality and sanitary shoreline survey data on shellfish closures and harvesting areas
- 2b **Purpose of the Database** To evaluate sanitary conditions for shellfish growing area classification and to identify trends in closures of shellfish growing and harvesting areas.
- 3a **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Environment Canada, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Christopher Roberts (902) 426-4482 FAX: (902) 426-3574
- 3c **Access Mechanisms** Through the responsible organization or contact person.
- 4a **Variables Included (summarized if extensive)**
 - salinity
 - dissolved oxygen
 - total coliform
 - fecal coliforms (MPN)
 - fecal *Streptococcus*
- 4b **Geographic Coverage** Coastal waters in New Brunswick, Nova Scotia, Prince Edward Island.
- 4c **Data Acquisition Method(s)** Field surveys.
- 4d **Geographic Unit(s) of Measurement** Shellfish growing and harvesting areas
- 4e **Period of Record** 1979 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** DATAPAC, FOXBASE, ORACLE RDBMS, PC compatible DEC VAX 3600.
- 4h **Output Format(s) (Tables, Maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Access only through responsible organization.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Several papers and reports are available which include information from the database.
- 8 **Languages** English.
- 9 **User Aids Available** None.
- 10 **Keywords** Harvesting; Microbiology; Molluscs; Monitoring; New Brunswick; Nova Scotia; Pollution; Prince Edward Island; Shellfish; Water quality.
- 11 **Additional Information** The entire database coexists in PCX DBF format as well as ORACLE RDBMS table format.

Atlas of Saskatchewan Birds

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Maps showing the distribution and seasonal and breeding status of birds in Saskatchewan with accompanying text describing habitat, factors affecting abundance and detailed information for particular records
- 2b. **Purpose of the Database** To produce accurate and up-to-date maps of the status and occurrence of birds in Saskatchewan.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Al Smith (306) 975-4091 FAX: (306) 975-4089
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - bird species
 - nesting status (possible, probable, confirmed)
 - seasonal status (summer visitant, spring transient, fall transient, winter resident)
 - location
 - date
 - historical changes in distribution
- 4b. **Geographic Coverage** Saskatchewan.
- 4c. **Data Acquisition Method(s)** Field data were collected by CWS staff and a region-wide network of volunteers over a twenty-five year period
- 4d. **Geographic Unit(s) of Measurement** Breeding records are mapped by 1:50,000 map sheets covering the region.
- 4e. **Period of Record** 1966 - 1990
- 4f. **Update Frequency** No immediate update is planned.
- 4g. **Database Hardware/Software Configuration** IBM compatible computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, text
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for reasonably-sized requests
7. **Corresponding Printed Sources** A book with distribution maps and accompanying text is in preparation.
8. **Languages** The database is in English.
9. **User Aids Available** Adam, C.I.G. and A.R. Smith (1984). "The Saskatchewan Bird Atlas-A New Project", in *Blue Jay*, 42:40-43.
10. **Keywords** Biota; Birds; Saskatchewan; Wildlife
11. **Additional Information** None.

Automated Water Quality Monitoring Data

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on the chemical, physical and (limited) biological quality of the transboundary waters of the Red River in Manitoba
- 2b. **Purpose of the Database** To provide information on surface water quality for determining trends and compliance with water quality objectives
- 3a. **Name and Address of Responsible Organization** Water Quality Branch, Conservation and Protection, Western and Northern Region, Environment Canada, 2365 Albert Street, Regina, Saskatchewan, S4P 4K1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bill Gummer (306) 780-5322 FAX: (306) 780-5311
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - dissolved oxygen
 - chloride
 - conductivity
 - pH
 - temperature
- 4b. **Geographic Coverage** Transboundary waters of Red River, Manitoba
- 4c. **Data Acquisition Method(s)** Data collected at sampling stations by automatic recorders every five seconds and averaged hourly
- 4d. **Geographic Unit(s) of Measurement** Individual monitoring stations
- 4e. **Period of Record** 1969 - present
- 4f. **Update Frequency** Every 5 seconds, hourly
- 4g. **Database Hardware/Software Configuration** VAX with RSI
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** *Automatic Water Quality Measurements, Red River at Emerson, Manitoba 1971- 1984*
8. **Languages** Database is in English
9. **User Aids Available** None.
10. **Keywords** Freshwater; Manitoba; Rivers; Water pollution; Water quality
11. **Additional Information** Monthly grab samples are also collected at numerous sampling locations. These data, unlike the automated sampling data, are forwarded to headquarters in Ottawa for inclusion in the National Water Quality Database

Avian Census Plots

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Non-game bird counts on permanent plots in various habitat types across Canada.
- 2b **Purpose of the Database** To monitor long-term trends in abundance of non-game birds.
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - habitat characteristics (dominant tree, ground cover plant species)
 - density of breeding pairs by species
- 4b **Geographic Coverage** National, primarily in settled areas.
- 4c **Data Acquisition Method(s)** Surveys conducted by volunteers using the territory mapping technique, and data submitted for inclusion in database.
- 4d **Geographic Unit(s) of Measurement** Survey plot size varies.
- 4e **Period of Record** 1934 - present.
- 4f **Update Frequency** Annually, following entry of historical information
- 4g **Database Hardware/Software Configuration** DOS-based IBM microcomputer with DBASE III+ QUATTRO.
- 4h **Output Format(s) (tables, maps, etc.)** Selected parts of the file or summary tables and figures in computer format, or possibly hardcopy.
- 5 **Restrictions and Conditions** See 11; data on rare, threatened or endangered species are restricted
- 6 **Price Information** No charge. Requester must submit floppy disks with request.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Birds; Habitats, Wildlife.
- 11 **Additional Information** Users must have a knowledge of limitations and usefulness of avian survey data obtained from the territory mapping technique.

Avian Use of Agrohabitats

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Bird species composition of habitats in agricultural landscapes in the Great Lakes - St. Lawrence region of Canada.
- 2b **Purpose of the Database** To assess risk to bird species of new and currently used registered pesticide products in Canada.
- 3a **Name and Address of Responsible Organization** Migratory Bird Surveys Division, Canadian Wildlife Service, Conservation and Protection, Environment Canada, Ottawa, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathy Freemark (819) 997-6082 FAX: (819) 953-6612
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
For each of 80 habitats:
 - bird species list
 - species presence by
 - * month
 - * activity (feeding, nesting, roosting, perching)
 - * intensity (bird/nest density, proportion of time spent in habitat)
 - habitat description
 - * general crop type (oil seeds, legumes, hay, etc.)
 - * specific crop type (alfalfa, soybeans, corn, bailey, oats, etc.)
 - * land area of each crop
 - citation (information source)
- 4b **Geographic Coverage** Great Lakes - St. Lawrence region of Canada (most of southern Ontario and a portion of southern Quebec)
- 4c **Data Acquisition Method(s)** Data on bird species mainly from the literature, some data from field surveys; habitat data from 1986 Census of Agriculture.
- 4d **Geographic Unit(s) of Measurement** Habitats of variable sizes.
- 4e **Period of Record** Database was completed in 1988
- 4f **Update Frequency** No updates are planned.
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE III software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** There is no charge for reports; policies for database provision have yet to be determined.
- 7 **Corresponding Printed Sources** A report summarizing the information in the database is in preparation.
- 8 **Languages** The report will be bilingual
- 9 **User Aids Available** None.
- 10 **Keywords** Agriculture; Biota; Birds; Habitats; Ontario; Quebec; Wildlife.
- 11 **Additional Information**
 1. Bird species data come largely from U.S. studies, but are applicable in Canada.
 2. This database has been used to assess risk to bird species from pesticide use based on information on bird species occurring in agricultural habitats, the agricultural habitats for which pesticides are registered and used, and the pesticide application regime (procedure and timing). It could also be useful in predicting the impact of other modifications to agricultural habitats.
 3. Consideration may be given to expanding this database for the purposes of examining the effects of changes in habitat structure on species use.
 4. The report summarizing the distribution of agricultural habitats within the region and the distribution of bird species within habitats is entitled, *Bird Use of Agricultural Habitats in the Great Lakes St. Lawrence Region*. It will be a technical report available from the responsible organization

Background Air Pollution Monitoring Network (BAPMON)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Measures greenhouse gases taken from samples at Cape St. James (west coast), Sable Island (east coast), and the Alert Station (high Arctic).
- 2b. **Purpose of the Database** To have a record of background levels of the various greenhouse gases over an extended period of time.
- 3a. **Name and Address of Responsible Organization** Measurements and Analysis Research Division, Air Quality and Inter-Environmental Research, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - carbon dioxide (CO₂)
 - methane (CH₄)
 - CFC's (freons)
 - ozone (O₃)
 - nitrous oxide (N₂O)
- 4b. **Geographic Coverage** West coast - Cape St. James; East coast - Sable Island; High Arctic - Alert.
- 4c. **Data Acquisition Method(s)** Flask sampling; non-dispersive infrared; gas chromatography.
- 4d. **Geographic Unit(s) of Measurement** Global background.
- 4e. **Period of Record** 1975 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputers, optical drive MS DOS, ASCII files and PARADOX files, NETWARE networking software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers.
5. **Restrictions and Conditions** Access through responsible organization only.
6. **Price Information** None.
7. **Corresponding Printed Sources** Annual Report for the Monitoring Program. Data submitted to and published by: (a) Carbon Dioxide Information Analysis Center, Oak Ridge, Tennessee; (b) World Meteorological Organization (WMO), Geneva.
8. **Languages** Data are only numbers. WMO report is available in French and English
9. **User Aids Available** None.
10. **Keywords** Air pollution; Air quality; Carbon dioxide; Climate change; Greenhouse gases; Pollutants; Monitoring.
11. **Additional Information**
 1. Flask CO₂ data available since 1975.
 2. Continuous CO₂ data and other greenhouse data available only for Alert Station.

B.C. Discharge Inventory Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on wastewater discharges under provincial permits (municipal, industrial, mines, wood industries) and from federal facilities
- 2b. **Purpose of the Database** To keep track of all provincially-permitted effluent discharges in B.C., and those emanating from federal facilities in B C
- 3a. **Name and Address of Responsible Organization** Municipal Effluents Program, Environmental Protection, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Alain David (604) 666-2699 FAX: (604) 666-6858
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - site name, location
 - category
 - provincial Waste Management Branch region
 - latitude and longitude
 - discharge type, discharge description, discharge flow
 - treatments applied to the discharge
 - receiving water
 - shellfish area
 - provincial Waste Management Branch permit number and issue date
 - Environmental Protection file number
 - site contact
- 4b. **Geographic Coverage** British Columbia
- 4c. **Data Acquisition Method(s)** Provincial permit system and field information
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** 1968 - present
- 4f. **Update Frequency** Monthly
- 4g. **Database Hardware/Software Configuration** Mainframe DATAPOINT to be converted on DOTS (ORACLE)
- 4h. **Output Format(s) (tables, maps, etc.)** Listing using searches and sortings
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** English
9. **User Aids Available** User friendly
10. **Keywords** British Columbia; Effluents; Industry, Liquid wastes, Mining, Municipal waste, Pulp and paper, Rivers, Wastes
11. **Additional Information**
 1. The municipal and industrial permit information is complete
 2. The mining and wood industry information is not as complete
 3. Effluent quality data are available from the Waste Management Branch of the B C Ministry of Environment, or from Environment Canada (see 3a)

Bird Banding and Recovery Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Data from across Canada and the United States on bird banding and bird recovery.
- 2b **Purpose of the Database** To document location and movement of birds and survey studies of birds.
- 3a **Name and Address of Responsible Organization** Migratory Birds Surveys, National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Ellen Hayakawa (819) 953-1425 FAX: (819) 953-6612
- 3c **Access Mechanisms** Through the responsible organization. Data available on floppy disk
- 4a **Variables Included (summarized if extensive)**
 - bird species (all species captured are banded)
 - bird attributes
 - sex
 - age
 - condition (dead, alive, health)
 - banding methods
 - methods of bird characteristic determination
 - banding and recovery locations
- 4b **Geographic Coverage** International (U.S.A., Mexico, Caribbean) and national, including all provinces and territories
- 4c **Data Acquisition Method(s)** Reports on banding from banders; recovery data from general public.
- 4d **Geographic Unit(s) of Measurement** Records summarized by degree or 10 minute blocks
- 4e **Period of Record** Recovery data: approximately 1950's - present. Banding data: 1908 - present.
- 4f **Update Frequency** Annually in November
- 4g **Database Hardware/Software Configuration** Micro IBM (DEC) 386 with custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables and maps available on request.
- 5 **Restrictions and Conditions** Data on threatened or endangered species are restricted; banders have first rights to data publication.
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** Reports are prepared irregularly based on portions of the data, but no regular publications series summarizing the database information is produced
- 8 **Languages** English mainly used in the database. French translation relating to the database is available. Reports are bilingual.
- 9 **User Aids Available** *North American Bird Banding Techniques, Volume 1.*
- 10 **Keywords** Biota; Birds; International; Migratory birds; United States; Wildlife.
- 11 **Additional Information**
 1. Publications in 7 and 9 are available from the responsible organization.
 2. Data are shared with the provinces and territories and the U.S. Fish and Wildlife Service, who may also produce publications.
 3. The publication, *Bird Banding in Canada: 1955-1985*, by Brewer and Diamond, is to be published in the CWS Report Series.

Bird Names

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Standardized sets of bird names in various languages. Taxonomy, geographic distribution, food habits, and legal status of birds in North America
- 2b **Purpose of the Database** To standardize common names and provide basic ecological information on North America bird species.
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - common names in various languages used in North and South America
 - American Ornithological Union number and checklist order
 - scientific name, family and order
 - regional (by province) population status (increasing, decreasing, stable)
 - breeding distribution (Canada, U.S., Central America, South America, offshore)
- 4b **Geographic Coverage** All North American bird species.
- 4c **Data Acquisition Method(s)** Literature, acknowledged experts.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** Database not yet operational.
- 4f **Update Frequency** At irregular intervals as updated information becomes available.
- 4g **Database Hardware/Software Configuration** DOS-based microcomputer with DBASE IV and QUATTRO software. ASCII files can be produced.
- 4h **Output Format(s) (tables, maps, etc.)** Selected parts, entire file, or summarized fields can be produced on disk or hardcopy.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge. Requester must submit floppy disks with request.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** Primarily in English; some common names in French; some common names in Spanish.
- 9 **User Aids Available** Description of source for each variable included in database.
- 10 **Keywords** Biota; Birds; Taxonomy; Wildlife.
- 11 **Additional Information** None.

Breeding Biology and Habitat of Prairie Ducks

Bulletin pH

- 1 **Datafile Name(s)** Biological Measurements of Prairie Ducks; Breeding Biology of Prairie Ducks.
- 2a **Summary Description of Contents** Characteristics of habitats used and available, migration chronology, population census and breeding success of ducks in central Saskatchewan.
- 2b **Purpose of the Database** To monitor breeding density and performance of prairie ducks on an intensely managed portion of the prairie pothole region of central Saskatchewan
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Robert Clark (306) 975-4110 FAX: (306) 975-4089
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
- # of pairs, broods by species
 - breeding density
 - nesting chronology
 - nest site and habitat characteristics (cover, water level, crop)
 - nesting success
- 4b **Geographic Coverage** Central Saskatchewan
- 4c **Data Acquisition Method(s)** Field surveys carried out within 1 1/2 mi² area
- 4d **Geographic Unit(s) of Measurement** Individual ponds and fields
- 4e **Period of Record** 1980 - present
- 4f **Update Frequency** Annually
- 4g **Database Hardware/Software Configuration** Minicomputer with custom software
- 4h **Output Format(s) (tables, maps, etc.)** Tables
- 5 **Restrictions and Conditions** None
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Annual report prepared; data used in numerous journal publications.
- 8 **Languages** Database and publications in English
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Birds; Ducks; Ecosystems; Habitats; Nesting; Prairies; Waterfowl; Wetlands; Wildlife; Saskatchewan
- 11 **Additional Information** None.

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Date, quantity of precipitation, measure of pH, path of precipitation
- 2b **Purpose of the Database** Compilation of monthly, seasonal, and annual statistics
- 3a **Name and Address of Responsible Organization** Atmospheric Environment Service
Environment Canada, Suite 300, 100 Alexis-Nihon, Ville St-Laurent, Quebec, H4M 2N8
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gilles Morneau (514) 283-1106 FAX: (514) 283-7149
- 3c **Access Mechanisms** Through the organization responsible
- 4a **Variables Included (summarized if extensive)**
- date
 - quantity of precipitation
 - measure of pH
 - air path from which precipitation originated
- 4b **Geographic Coverage** Ontario (Longwood, Dorset, Chalk River), Quebec (Sutton, Montmorancy Forest), Nova-Scotia (Kejimikujik)
- 4c **Data Acquisition Method(s)** Sampling stations
- 4d **Geographic Unit(s) of Measurement** Latitude, longitude
- 4e **Period of Record** 1985 to date
- 4f **Update Frequency** Monthly
- 4g **Database Hardware/Software Configuration** LOTUS 1-2-3, IBM-PC
- 4h **Output format(s) (tables, maps, etc.)** Data only
- 5 **Restrictions and Conditions** No restrictions
- 6 **Price Information** Cost recovery
- 7 **Corresponding Printed Sources** The Canadian Air and Precipitation Monitoring Network publishes results of monitoring
- 8 **Languages** Annual Internal Publications are in French, data base is in English and French
- 9 **User Aids Available** None
- 10 **Keywords** Acid precipitation, Nova Scotia, Ontario, Precipitation, Quebec
- 11 **Additional Information** The purpose of this network is to identify available information only. An assessment of the scientific validity/data quality of the contents in the file has not been made

Canada Geographic Information System (CGIS)

- 1 **Datafile Name(s)** See 11
- 2a **Summary Description of Contents** Canada Land Inventory (CLI), including suitability for agriculture, forestry, recreation, wildlife and land use along with other administrative layers including census divisions, watersheds and ecological land units. This database contains numerous sub-databases.
- 2b **Purpose of the Database** To provide baseline digital mapped data for environmental and resource management planning decisions and for state of the environment reporting.
- 3a **Name and Address of Responsible Organization** Environmental Information Systems Division, State of the Environment Reporting, Environment Canada, 10th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ernie Beaudette (819) 953-1467 FAX: (819) 953-3972
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - land capability class
 - limitation subclass
 - land cover
 - land activity
- 4b **Geographic Coverage** Canada (latitude, longitude; UTM; Lambert conformal and conic projections).
- 4c **Data Acquisition Method(s)** Map interpretation.
- 4d **Geographic Unit(s) of Measurement** Homogeneous map unit by thematic variable.
- 4e **Period of Record** 1960 - present.
- 4f **Update Frequency** Ongoing.
- 4g **Database Hardware/Software Configuration** Canada Geographic Information System; Service Bureau IBM mainframe.
- 4h **Output Format(s) (tables, maps, etc.)** Maps, tables, text, digital files (see 11).
- 5 **Restrictions and Conditions** Contact responsible organization.
- 6 **Price Information** Cost recovery policy.
- 7 **Corresponding Printed Sources**
 1. Various maps
 2. *The State of Canada's Environment* (1991)
 3. Environmental Indicators reports.
- 8 **Languages** Maps are bilingual. All reports are in English; some are also in French. Database is in English.
- 9 **User Aids Available**
 1. EIS summary catalogue of data holdings.
 2. CLDS/CGIS catalogue of reports.
 3. EIS summary catalogue of SPANS databases.
 4. EIS digital data file formats
- 10 **Keywords** Agriculture; Ecosystems; Federal properties; Forestry; GIS; Land; Land use; National parks; Recreational areas; Soil capabilities; Urban areas; Watersheds; Wildlife.
- 11 **Additional Information** Sub-databases are: Agricultural Land Capability, Ecological Land Classification; Forestry Land Capability; Fruitlands; National Parks; Recreational Land Capability; Ungulate Land Capability; Urban Centred Regions; Waterfowl Land Capability. There are numerous others that contain useful environmental information.

Canadian Air and Precipitation Monitoring Network (CAPMON)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Daily sampling of air and precipitation and ancillary meteorological parameters for acidifying air pollutants and ozone. Prince Edward Island and the Yukon Territory are not included. Data will be incorporated in the NATCHEM database and the U.S. Atmosphere Deposition System (ADS).
- 2b **Purpose of the Database** To provide data on spatial and temporal variations, determine long-term trends, verify long-range transport models/processes and standardize other networks.
- 3a **Name and Address of Responsible Organization** Measurements and Analysis Research Division, Air Quality Research, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - precipitation
 - amount
 - hydrogen (H⁺), sulphate (SO₄²⁻), nitrate (NO₃⁻), chlorine (Cl⁻)
 - sodium (Na⁺), potassium (K⁺), calcium (Ca²⁺), magnesium (Mg²⁺), ammonium (NH₄⁺)
 - air
 - sulphur dioxide (SO₂)
 - nitric acid (HNO₃) (gaseous)
 - sulphate (SO₄²⁻), nitrate (NO₃⁻), chlorine (Cl⁻), ammonium (NH₄⁺), potassium (K⁺)
 - ozone (O₃)
- 4b **Geographic Coverage** National - 24 stations in rural areas. All provinces and territories except P.E.I. and Yukon.
- 4c **Data Acquisition Method(s)** Daily sampling of precipitation in wet-only collectors using plastic bags. Daily sampling of air using 3-stage filter pack system with teflon, nylon and cellulose filters. Continuous measurement of ozone using the UV absorption technique.
- 4d **Geographic Unit(s) of Measurement** Site specific measurements at regionally representative sites.
- 4e **Period of Record** 1983 - present.
- 4f **Update Frequency** Annually
- 4g **Database Hardware/Software Configuration** Mainframe computer, SAS.
- 4h **Output Format(s) (tables, maps, etc.)** Tables of numbers.
- 5 **Restrictions and Conditions** Access only through responsible organization.
- 6 **Price Information** None.
- 7 **Corresponding Printed Sources**
 1. Annual CAPMON Data Reports.
 2. ADS (U.S. Atmosphere Deposition System Database) Annual Data Summary.
 3. Database reports from the National Air Pollution Surveillance System (NAPS).
- 8 **Languages** All reports are in English with some also in French. Database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Acid precipitation; Air pollution; Air quality; Monitoring; Ozone; Precipitation; Pollution.
- 11 **Additional Information** None.

Canadian Council of Ministers of the Environment PCB Inventory

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Inventory of polychlorinated biphenyls storage sites and in-use PCBs and PCB items at each site. Information on askarel and contaminated mineral oil and equipment (transformers, capacitors, regulators, etc.)
- 2b. **Purpose of the Database** To provide the Canadian Council of Minister of the Environment with a national inventory of PCBs in support of the PCB phase out strategy
- 3a. **Name and Address of Responsible Organization** Waste Management Branch, Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. J. Stevenson (819) 994-0599 FAX: (819) 997-3068
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - owner information
 - site information (address, postal code, geocode, contact person)
 - equipment/waste information
 - equipment/waste type (transformer, capacitor, regulator, etc; plus barrels of oil, debris, light ballasts, oil, water, sludge, etc.)
 - equipment status (in use, in storage for future use, in storage for disposal, disposed)
 - capacity (litres or kg)
 - number of units
 - total volume or weight (capacity x no. of units)
 - PCB type (askarel, contaminated mineral oil)
 - PCB concentration in contaminated mineral oil (ppm)
 - PCB contamination level of other wastes (ppm, or H/M/L)
 - manufacturers serial number (in-use only)
 - EP PCB label number (in-use only)
- 4b. **Geographic Coverage** National, all provinces and territories
- 4c. **Data Acquisition Method(s)** Reports from private or government agencies under compliance; inspections by federal and provincial environment ministers. Federal data supplied by each of the regional offices twice a year.
- 4d. **Geographic Unit(s) of Measurement** Site specific information
- 4e. **Period of Record** 1988 - present
- 4f. **Update Frequency** Every six months
- 4g. **Database Hardware/Software Configuration** Micro DEC 325, DBASE-III +
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Currently information on waste is public, but in-use information is protected.
6. **Price Information** Not yet established.
7. **Corresponding Printed Sources** Annual reports.
8. **Languages** Reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Contaminated sites; Contaminated wastes; Contaminants, Hazardous materials; PCBs; Polychlorinated biphenyls; Waste disposal; Waste inventory; Wastes
11. **Additional Information**
 1. Waste information for areas under federal jurisdiction is available from the responsible organization. Other information on waste is available from provincial environment ministries.
 2. Each regional office of Environment Canada maintains a database and forwards regional PCB information to Headquarters for inclusion in this database

Canadian Great Lakes Coastal Zone Database (GLCZDB)

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on shoreline land use, structures, flood and erosion hazard areas, environmentally sensitive areas and nearshore characteristics
- 2b. **Purpose of the Database** To evaluate the impacts of changing lake levels on the shore zone and to use as a tool in shoreline management
- 3a. **Name and Address of Responsible Organization** Water Planning and Management Branch, Inland Waters Directorate, Ontario Region, Environment Canada, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. William Bien (416) 336-4948 FAX: (416) 336-4906
- 4c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - land use in shoreline buffer
 - number of buildings in reach
 - erosion rate data
 - erosion and flood hazard areas
 - location of wetlands
 - nearshore contours, wave energy
 - major fetch, fetch of 8 compass points
 - offshore lake bottom material
 - per cent shore protection
 - sediment transport volume
- 4b. **Geographic Coverage** Great Lakes - St. Lawrence River shoreline
- 4c. **Data Acquisition Method(s)** From aerial photographs and existing data sources
- 4d. **Geographic Unit(s) of Measurement** Shoreline divided into reaches of uniform physiographic conditions
- 4e. **Period of Record** Some data cover a time period since about 1970, other portions are from the mid-1980's
- 4f. **Update Frequency** None at present
- 4g. **Database Hardware/Software Configuration** COMPAQ DESKPRO 386, SPANS GIS software
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, diskettes
5. **Restrictions and Conditions** Contact responsible organization
6. **Price Information** Not yet considered
7. **Corresponding Printed Sources** Much of the information has been abstracted from reports and files at Canada Centre for Inland Waters
8. **Languages** English
9. **User Aids Available** No manuals are available for this application
10. **Keywords** Bathymetry; Environmentally sensitive areas, Erosion; Flood risk; GIS, Great Lakes; Lakes; Land use; St. Lawrence River, Water levels, Wetlands
11. **Additional Information** This database is presently in the development phase

Canadian Inventory of Historic Buildings (CIHB)

1. **Datafile Name(s)** Historic Sites and Monuments Board of Canada (HSMBC) Federal Heritage Buildings Review Office (FHBRO-including register of Federal Heritage Buildings).
- 2a. **Summary Description of Contents** Architectural, historical and geographical information on buildings in Canada
- 2b. **Purpose of the Database** To provide support for the HSMBC and FHBRO and to serve the general public. The FHBRO also serves other federal departments.
- 3a. **Name and Address of Responsible Organization** Canadian Inventory of Historic Buildings, Canadian Parks Service, Environment Canada, 3rd Floor, 10 Wellington Street, Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Richard Martineau (819) 994-2867 FAX: (819) 953-4909
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - architectural features
 - historical data
 - geographical location
 - evaluation of federally owned buildings
 - designations of Federal Heritage Buildings
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Field surveys (220,000 records), volunteer survey information exchange, extraction from researched sources, recommendations of HSMBC and FHBRO
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1914 - present.
- 4f. **Update Frequency** On-going as information and research is received.
- 4g. **Database Hardware/Software Configuration** Mainframe - IBM/COBOL, CROSSTALK MICROCOMPAQ and TOSHIBA - DBASE IV, WORDPERFECT, SYMPHONY.
- 4h. **Output Format(s) (tables, maps, etc.)** Printed reports - encoded or verbalized; also, photographs, maps, plans, research documents, etc.
5. **Restrictions and Conditions** Some restrictions may apply.
6. **Price Information** Often based on information exchange agreement; no charge for reasonably-sized requests
7. **Corresponding Printed Sources** *HSMBC - Catalogue of Extant Buildings in Canada* (buildings on National Historic Sites).
8. **Languages** English and French.
9. **User Aids Available** Exterior Recording Training Manual
10. **Keywords** Architecture; Historic sites.
11. **Additional Information** Several of the microcomputer applications are extended subsets with additional researched information, e.g. the Data Verification (DV) System relating to research documents and the National Parks Building Database. Also, a database on Heritage Contacts and Industrial/Manufacturing Complexes in Canada is available.

Chemical Profiles Database - Schedule II
Transportation of Dangerous Goods (CHEMPROF)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** National database covering over 900 pure chemicals under the Transportation of Dangerous Goods Regulations including chronic, acute and aquatic toxicity information.
- 2b. **Purpose of the Database** To update regulations under the Transportation of Dangerous Goods Act and to maintain information on the transportation of dangerous chemicals.
- 3a. **Name and Address of Responsible Organization** Waste Management Branch, Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Luke Trip (819) 953-3415 FAX: (819) 997-3068
- 4c. **Access Mechanisms** Through the responsible organization; data available on floppy disk.
- 4a. **Variables Included (summarized if extensive)**
 - chemical name
 - physical and chemical properties (melting point, solubility, specific gravity)
 - aquatic toxicity (lethal concentrations for various aquatic species)
 - acute toxicity (mammalian)
 - chemical group (21 groups such as amines, halogenated chemicals, organic acids and esters, miscellaneous organics, pesticides, organo compounds)
 - chronic toxicity for humans (carcinogenic, teratogenic data)
 - United Nations chemical class (explosives, gases, flammable solids, radioactive, corrosive, etc.)
 - hazard rank (1-highest to 3-lowest) within each class
 - chemical abstract series number
- 4b. **Geographic Coverage** National, all provinces and territories; over 900 chemicals in the database.
- 4c. **Data Acquisition Method(s)** Literature survey.
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** 1988 - 1990.
- 4f. **Update Frequency** Formerly irregular; no longer updated.
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III + software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables and text.
5. **Restrictions and Conditions** None.
6. **Price Information** Not determined.
7. **Corresponding Printed Sources** None at present.
8. **Languages** Text is in English.
9. **User Aids Available** Menu provided with database.
10. **Keywords** Chemicals; Hazardous materials; Toxics; Transportation; Transportation of dangerous goods.
11. **Additional Information** None.

Canadian Parks Service (CPS) Basic Resource Inventory

- 1 **Datafile Name(s)** Numerous datafiles organized by national park.
- 2a. **Summary Description of Contents** Geographic and biophysical data on national parks such as geology, soils, wildlife, vegetation, forestry, and hydrology by biophysical land units.
- 2b. **Purpose of the Database** To provide the basis for environmental and resource management planning decisions in Canada's national parks according to land capability to support wildlife, recreation, forestry and agriculture.
- 3a. **Name and Address of Responsible Organization** Natural Resources Branch, Canadian Parks Service, Environment Canada, 2nd Floor, 10 Wellington Street, Hull, Quebec, K1A 0H3.
** and Regional Offices of the Canadian Parks Service (see 11)
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Nicole Sarrazin (819) 994-5523 FAX: (819) 953-8484
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - vegetation cover (herbaceous and crown)
 - soils
 - hydrology
 - geomorphological features
 - special features
 - wildlife
- 4b. **Geographic Coverage** Canadian national parks, see 11
- 4c. **Data Acquisition Method(s)**
 - air photo analysis
 - ground truthing
 - biophysical surveys
 - literature reviews
 - resource studies
- 4d. **Geographic Unit(s) of Measurement** Scales vary with size and location of park; information referenced to latitude, longitude
- 4e. **Period of Record** 1965 - present (data). 1975 - present (database)
- 4f. **Update Frequency** As required.
- 4g. **Database Hardware/Software Configuration** SPANS Geographic Information System (GIS); IBM compatible microcomputer
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, numerous reports
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Some costs may apply, depending on the request for information
- 7 **Corresponding Printed Sources** Numerous reports are available on biophysical resources in Canadian national parks
- 8 **Languages** English in all regions except Quebec where data are in French
- 9 **User Aids Available** None
10. **Keywords** GIS; Historic sites; Hydrology; National parks; Physiography; Wildlife
- 11 **Additional Information** Regional Offices of the Canadian Parks Service responsible for national parks data.

ATLANTIC REGION PARKS: Cape Breton Highlands; Fundy; Gros Morne; Prince Edward Island; Kejimikujik; Kouchibouguac

CONTACT: Don Harris, Chief, Natural Resource Conservation, Atlantic Region, Canadian Parks Service, Historic Properties, Upper Water Street, Halifax, Nova Scotia B3J 1S8
Tel. (902) 426-3401 FAX: (902) 426-7012

RÉGION DU QUÉBEC PARCS: FORILLON; LA MAURICIE, MINGAN ARCHIPELAGO

CONTACT: Alain Dufresne, Chef, Conservation des ressources naturelles, Région du Québec, Service canadien des parcs, 3, rue Buade, C.P. 6060, Haute-Ville, Québec G1R 4V7 Tél. (418) 648-4049 FAX: (418) 648-4234

ONTARIO REGION PARKS: Bruce Peninsula; Georgian Bay Islands, Point Pelee Pukaskwa, Saint Lawrence Islands

CONTACT: Jim Barlow, Chief, Natural Resource Conservation, Ontario Region, Canadian Parks Service, 111 Water Street, Cornwall, Ontario K6H 4V7 Tel (613) 938-5931 FAX (613) 938-5785

PRAIRIE AND NORTHERN REGION PARKS: Auyuittuq; Grasslands; Kluane, Nahanni, Ellesmere Island, Northern Yukon; Prince Albert; Riding Mountain; Wood Buffalo

CONTACT: Doug Kerfoot, Chief, Natural Resource Conservation, Prairie and Northern Region, Canadian Parks Service, 457 Main Street, 4th floor, Winnipeg, Manitoba R3B 3E8 Tel. (204) 983-3113 FAX: (204) 983-2014

WESTERN REGION PARKS: Banff, Elk Island, Glacier, Jasper, Kootenay; Mount Revelstoke; Pacific Rim, South Moresby, Waterton Lakes, Yoho

Kurtis Seel, Chief, Natural Resources Conservation, Western Region, Canadian Parks Service, P.O. Box 2989, 220-4th Avenue S.E., Postal Station "M", Calgary, Alberta T2P 3H8 Tel. (403) 292-4458 FAX: (403) 292-4746

CITES (Convention on International Trade in Endangered Species) Import/Export Permits

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Import and export permits and certificates for live specimens and endangered species products related to the Convention on International Trade in Endangered Species (CITES)
- 2b. **Purpose of the Database** For use in the control international trade of endangered species through a permit system.
- 3a. **Name and Address of Responsible Organization** Convention on International Trade in Endangered Species, Canadian Wildlife Service, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jean Robillard (819) 997-1840 FAX: (819) 953-6283
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - importer/exporter name
 - species in trade
 - quantity
 - purpose of trade
 - permit number
- 4b. **Geographic Coverage** International.
- 4c. **Data Acquisition Method(s)** Permits issued in Canada and permits forwarded by Canada Customs to the responsible organization.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1975 - present.
- 4f. **Update Frequency** As permits are received.
- 4g. **Database Hardware/Software Configuration** VAX 6440 with ORACLE and DBASE III
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Names of importers/exporters are confidential, but summary data are available
6. **Price Information** Contact responsible organization.
7. **Corresponding Printed Sources** Annual reports are prepared summarizing information for species on the CITES list.
8. **Languages** The database is in English; the reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Birds; Endangered species; Permits; Trade; Wildlife.
11. **Additional Information** None.

Coastal Waterfowl Survey

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on the distribution and abundance of coastal waterfowl populations in parts of Atlantic Canada during spring, winter and fall.
- 2b. **Purpose of the Database** To document bird distribution and abundance in coastal waters.
- 3a. **Name and Address of Responsible Organization** Wildlife Conservation and Environmental Quality, Conservation and Protection, Atlantic Region, Environment Canada, Sackville, New Brunswick, E0A 3C0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bruce Johnson (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization or contact person.
- 4a. **Variables Included (summarized if extensive)**
 - number of birds
 - bird location
 - time of survey
 - pre and post-season counts
 - winter inventory
- 4b. **Geographic Coverage** Maritime Provinces.
- 4c. **Data Acquisition Method(s)** Aerial surveys.
- 4d. **Geographic Unit(s) of Measurement** Survey blocks of varying sizes.
- 4e. **Period of Record** 1966 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Digital database.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers broken down by species.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Several reports have been published which contain parts of the information contained in the database.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Biota; Birds; New Brunswick; Nova Scotia; Prince Edward Island; Waterfowl; Wildlife.
11. **Additional Information** A publication, *Maritime Aerial Waterfowl Surveys 1967-1989* is being prepared.

Colonial Birds in the Maritimes

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on the distribution and abundance of colonial birds (great blue heron, blackback gull, common tern, arctic tern, black-crowned night heron) in parts of Atlantic Canada
- 2b. **Purpose of the Database** To monitor the status of bird populations and colonies in the Maritime Provinces.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, Sackville, New Brunswick, E0A 3C0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. A. Smith (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization or contact person
- 4a. **Variables Included (summarized if extensive)**
 - number of breeding pairs of birds
 - location of colonies
- 4b. **Geographic Coverage** Maritime Provinces (primarily coastal areas)
- 4c. **Data Acquisition Method(s)** Ground and aerial surveys.
- 4d. **Geographic Unit(s) of Measurement** Individual bird colonies
- 4e. **Period of Record** 1960 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM Desktop; hard copy - binder form or topographic charts.
- 4h. **Output Format(s) (tables, maps, etc.)** Mainly survey sheets summarizing variable information.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Numerous reports have been released which contain parts of the information contained in the database.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Biota; Bird colonies; Birds; New Brunswick; Nova Scotia; Prince Edward Island, Wildlife
11. **Additional Information** None.

Committee on the Status of
Endangered Wildlife in Canada Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on nationally vulnerable, threatened and endangered species for which status reports have been produced
- 2b. **Purpose of the Database** To assess the national status of selected plant and animal species to determine protection priorities and provide information relevant for developing recovery plans.
- 3a. **Name and Address of Responsible Organization** Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Sylvia Normand (819) 997-4991 FAX: (819) 953-6283
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species name (Latin, common)
 - taxonomic history
 - distribution
 - habitat (description, ownership)
 - population biology and ecology
 - management activities
 - threats to survival
 - legal status
 - status assessment
 - information sources
 - status report author
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Status reports prepared by individuals or organizations
- 4d. **Geographic Unit(s) of Measurement** Species specific information
- 4e. **Period of Record** 1977 - present
- 4f. **Update Frequency** Irregularly, as status reports are prepared or revised
- 4g. **Database Hardware/Software Configuration** Hardcopy files
- 4h. **Output Format(s) (tables, maps, etc.)** Text with accompanying figures and maps
5. **Restrictions and Conditions** None
6. **Price Information** No charge for reasonably-sized requests
7. **Corresponding Printed Sources** Annually two lists are produced on all species and their status; new species and their status added during the current year. As well, an annual report is prepared for the Federal-Provincial Wildlife Conference
8. **Languages** Most of the status reports are in English, others in French
9. **User Aids Available** A guide to preparing status reports is available (see 11)
10. **Keywords** Amphibians, Biota, Biotic response; Birds, Endangered species, Fish, Mammals, Plants, Rare plants, Reptiles, Wildlife
11. **Additional Information**
 1. A book on endangered species in Canada has been prepared by State of the Environment Reporting Branch, Ottawa
 2. Other publications of the responsible organization include species recovery plans and detailed ecological studies of some species
 3. Species status is determined at the annual COSEWIC meeting in April based on information provided in status reports

Conservation Areas Database

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** List of protected environmental sites across Canada. International Union for Conservation of Nature and Natural Resources protected areas classifications are: scientific reserve/strict nature reserve, national park, natural monument and landmark, managed nature reserve/wildlife sanctuary, protected landscape or seascape, resource reserve, natural biotic area/anthropological reserve, multiple-use management area/managed resource area, biosphere reserve, World Heritage Site.
- 2b **Purpose of the Database** To inventory managed and protected areas across Canada.
- 3a **Name and Address of Responsible Organization** Environmental Information Systems, State of the Environment Reporting, Environment Canada, 10th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ernie Beaudette (819) 953-1467 FAX: (819) 953-3972
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - for each protected area:
 - * latitude & longitude
 - * province
 - * name
 - * jurisdiction
 - * source of data
 - * type of area
 - * legal protection
 - * IUCN category
 - * area
 - * year established
 - * authorization legislation
 - * management authority
 - * natural region
- 4b **Geographic Coverage** Mainland Canada & islands.
- 4c **Data Acquisition Method(s)** Survey of federal, provincial and territorial departments.
- 4d **Geographic Unit(s) of Measurement** Site specific
- 4e **Period of Record** 1883 - 1989
- 4f **Update Frequency** As required.
- 4g **Database Hardware/Software Configuration** IBM-PC or compatible microcomputer.
- 4h **Output Format(s) (tables, maps, etc.)** Maps, statistical summaries, fact sheets, charts, digital files.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Undetermined.
- 7 **Corresponding Printed Sources** Not applicable.
- 8 **Language(s)** English.
- 9 **User Aids Available** None.
- 10 **Keywords** Historic sites; National parks; Wildlife; World Heritage Sites.
- 11 **Additional Information** None.

Co-operative Breeding Bird Survey

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Numerical data from nationally distributed locations on species and numbers of breeding birds by species.
- 2b **Purpose of the Database** To assess trends in songbird populations across Canada and North America with joint surveys conducted in the United States.
- 3a **Name and Address of Responsible Organization** National Wildlife Research Centre Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Ellen Hayakawa (819) 953-1425 FAX: (819) 953-6612
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - species (mostly songbirds/passerines but other common groups include terns, sea gulls, shorebirds).
 - number of breeding birds determined by counts of singing males or by sight.
- 4b **Geographic Coverage** International (US), and national, mainly in the provinces with some territorial coverage.
- 4c **Data Acquisition Method(s)** Data collected by volunteers along car-driven transects.
- 4d **Geographic Unit(s) of Measurement** Individual transects (250 across Canada), latitude and longitude to the minute for transect starting point.
- 4e **Period of Record** 1966 - present.
- 4f **Update Frequency** Annually, in February.
- 4g **Database Hardware/Software Configuration** Micro IBM AT, custom and DBASE III software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Data on threatened or endangered species are restricted.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Annual reports are available up to 1980; an annual report for 1989 is in preparation.
- 8 **Languages** Reports are bilingual.
- 9 **User Aids Available** The first 10 years of the cooperative breeding bird survey in Canada. CWS Report Series No. 42, 1978.
- 10 **Keywords** Biota; Birds; International; United States; Wildlife
- 11 **Additional Information** A key to Canadian Wildlife Service and U.S. Fish and Wildlife Service songbird monitoring programs is available.

Current Meter System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Time series of water current data in the Great Lakes, except Lake Michigan.
- 2b. **Purpose of the Database** Data are used for: transport modelling; modelling the dispersion of contaminants; estimates of effects on shore structures; search and rescue and other scientific studies.
- 3a. **Name and Address of Responsible Organization** Computing and Programming Section, Research Support Division, National Water Research Institute, Canada Centre for Inland Waters, Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L7R 4A6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mrs. Jo-ann Hodson (416) 336-4627 FAX: (416) 336-4989
Mr. Maurice Kerman (416) 336-4945 FAX: (416) 336-4989
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Measured (summarized if extensive)**
 - water temperature
 - speed of current
 - direction of current
- 4b. **Geographic Coverage** Great Lakes, except Lake Michigan; can include smaller lakes across Canada.
- 4c. **Data Acquisition Method(s)** Individual monitoring stations.
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements.
- 4e. **Period of Record** 1967 to present.
- 4f. **Update Frequency** Time series at 20-minute intervals.
- 4g. **Database Hardware/Software Configuration** Data are stored on a CYBER Mainframe computer; data can be downloaded to connected personal computers
- 4h. **Output Format(s) (tables, maps, etc.)** Listings, statistical summaries, time series plots, tapes.
5. **Restrictions and Conditions** No confidentiality or access restrictions. Searches are carried out by personnel of the responsible organization.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Various research reports use the data contained in this database. Generally, the publications contain summary data whereas the database contains raw data.
8. **Languages** English.
9. **User Aids Available** Documentation is available in tape formats with a summary of each program and how to execute it.
10. **Keywords** Great Lakes; Lakes; Ontario; Water; Water currents; Water temperature
11. **Additional Information** Not applicable.

Data Management System of the Bacteriological Quality of Shellfish Areas Surveillance Programme

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on the bacteriological quality of water for shellfish regions of Quebec (Magdalen Islands, Lower St. Lawrence, Gaspé, North Shore)
- 2b. **Purpose of the Database** To monitor environmental quality for regulatory purposes
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3C 3H9
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Réjean de Ladurantaye (514) 283-6925 FAX: (514) 283-4423
- 3c. **Access Mechanisms** Through the organization responsible
- 4a. **Variables Included (summarized if extensive)**
 - faecal coliforms
 - hydrological and meteorological factors
 - pollution sources
- 4b. **Geographic Coverage** Lower St. Lawrence, North Shore, Gaspé, Magdalen Islands
- 4c. **Data Acquisition Method(s)** Sampling
- 4d. **Geographic Unit(s) of Measurement** Data are reported by point and by sector
- 4e. **Period of Record** Since 1969
- 4f. **Update Frequency** Yearly
- 4g. **Database Hardware/Software Configuration** PC compatible microcomputer, AUTOCAD, DBASE
- 4h. **Output format(s) (tables, maps, etc.)** Maps and tables
5. **Restrictions and Conditions** None
6. **Price Information** None
7. **Corresponding Printed Sources** None
8. **Languages** French
9. **User Aids Available** None.
10. **Keywords** Crustaceans; Marine; Microbiology; Molluscs; Quebec; Regulatory control; Water quality
11. **Additional Information** None

Database on Dredging and Sediment Quality in the St. Lawrence River

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Results of sediment samples taken at dredging sites as well as information on the dredging projects themselves.
- 2b **Purpose of the Database** Provides information on dredging projects and the quality of river bottom sediments
- 3a **Name and Address of Responsible Organization** St. Lawrence Centre, Environmental Technologies Development Directorate, Conservation and Protection, Environment Canada, Suite 400, 105 McGill Road, Montreal, Quebec, H2Y 2E7.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mrs Lucie Olivier (514) 496-2272 FAX: (514) 283-9451
Mr René Rochon (514) 496-2272
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - volume of sediments dredged
 - sediment grain size
 - metals
 - organic compounds
- 4b **Geographic Coverage** St. Lawrence River and Saguenay River.
- 4c **Data Acquisition Method(s)** Sampling
- 4d **Geographic Unit(s) of Measurement** Dredging site
- 4e **Period of Record** 1977 to date
- 4f **Update Frequency** Yearly
- 4g **Database Hardware/Software Configuration** Microcomputer; ORACLE, SPANS.
- 4h **Output format(s) (tables, maps, etc.)** Maps, tables, lists
- 5 **Restrictions and Conditions** Requests subject to review
- 6 **Price Information** None
- 7 **Corresponding Printed Sources** None
- 8 **Languages** French
- 9 **User Aids Available** None
- 10 **Keywords** Dredging; GIS; Heavy metals; Organic pollutants; PCBs; Pesticides; PAHs; Polychlorinated biphenyls; Polycyclic aromatic hydrocarbons; Sediments; St. Lawrence River; Water quality
- 11 **Additional Information** Contents of the database were being validated at time of survey.

Domestic Substances List (DSL)

- 1 **Datafile Name(s)** Domestic Substances List, Non-Domestic Substances List.
- 2a **Summary Description of Contents** A list of chemical substances imported into or manufactured in Canada between 1984 and 1986
- 2b **Purpose of the Database** To maintain a list of substances in Canadian commerce in order to determine whether a substance is existing or new to Canada. New substances are subject to reporting requirements prior to manufacture or import and are assessed pursuant to Canadian Environmental Protection Act (CEPA), Section 25-32. 3.
- 3a **Name and Address of Responsible Organization** New Substances Division, Commercial Chemicals Branch, Environmental Protection, Conservation and Protection, Environment Canada, Ottawa, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Division Chief (819) 997-4336 FAX: (819) 953-7155
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)** Manufacturers and importers may claim confidentiality for any of the following parameters, but claim must be substantiated.
 - substance name (exact chemical identity) (masked name for confidential substances),
 - site of manufacture, activity (import, manufacture)
 - substance Chemical Abstracts Service Registry Number
 - amount (imported or manufactured in 1986)
 - use (absorbent, abrasive, coagulant, etc.)
 - import destination (province/territory)
- 4b **Geographic Coverage** National, all provinces and territories.
- 4c **Data Acquisition Method(s)** Substance producers and importers voluntarily submit info to DOE, according to technical criteria developed by DOE, based on CEPA.
- 4d **Geographic Unit(s) of Measurement** Individual substances.
- 4e **Period of Record** 1984 -
- 4f **Update Frequency** Regularly following notification and assessment of substances and reaching certain volumes of import or manufacture as prescribed by regulation (effective Jan. 1, 1987).
- 4g **Database Hardware/Software Configuration** MICROVAX with ORACLE software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables; on compact disk, tape, hard copy.
- 5 **Restrictions and Conditions** Data on some substances are restricted. Data will not be directly accessible. Consult the responsible manager.
- 6 **Price Information** Not yet determined.
- 7 **Corresponding Printed Sources** The final DSL will be in Canada Gazette II (see 11). Periodic supplements will be prepared.
- 8 **Languages** List will be published in the Canada Gazette II in both official languages.
- 9 **User Aids Available** The final Canada Gazette II will contain user information concerning the database. *Reporting for the Domestic Substances List (1988)* (note: this is a guide to industry reporting for the DSL).
- 10 **Keywords** Chemicals.
- 11 **Additional Information** This database is under development.
 1. A core (preliminary) list of chemicals used in Canadian commerce in 1984-1986 is being prepared based on submissions by about 150 Canadian companies. Following its review additions will be made by other manufacturers and importers. Notice of this larger list was published in Canada Gazette I (1990) as the Provisional Domestic Substances List. During a 90 day review period for this list, corrections and additions will be made and a list of non-domestic substances will be identified based on the U.S.T.S.C.A. list. This final list of domestic and non-domestic substances was published in Canada Gazette II in 1990.
 2. Substances introduced in Canadian commerce after January 1, 1987 will be added to the DSL only after notification and assessment requirements under the Canadian Environmental Protection Act are met.

Environmental Contaminants in Seabirds

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on contaminant concentrations in seabirds.
- 2b. **Purpose of the Database** To monitor trends in contaminant concentrations in seabirds and to determine threats to their health.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, Fredericton, New Brunswick, E3B 4Z9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dan Busby (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization or contact person.
- 4a. **Variables Included (summarized if extensive)** Levels of DDT, PCBs and other organohalogen compounds in selected Canadian seabirds.
- 4b. **Geographic Coverage** Atlantic provinces - seabirds colonies in coastal areas and offshore islands.
- 4c. **Data Acquisition Method(s)** Egg collection at site.
- 4d. **Geographic Unit(s) of Measurement** Specimen specific (egg, tissue).
- 4e. **Period of Record** 1968 to the present.
- 4f. **Update Frequency** Every 4 years.
- 4g. **Database Hardware/Software Configuration** Digital.
- 4h. **Output Format(s) (tables, maps, etc.)** Tabular data.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Several articles have been published in the scientific literature which summarize parts of the data in the database; among these:

Pearce, P.A., D.B. Peakall, and L.M. Reynolds (1979). "Shell Thinning and Residues of Organochlorines and Mercury in Seabird Eggs, Eastern Canada, 1970-76". *Pesticides Monitoring Journal*, 13:61-68.

Pearce, P.A., J.E. Elliott, D.B. Peakall, and R.J. Norstrom (1989). "Organochlorine Contaminants in Eggs of Seabirds in the Northwest Atlantic, 1968-1984". *Environmental Pollution*, 56:217-235.
8. **Languages** English.
9. **Additional Information** The data are useful as an indicator of spatial and temporal trends in levels of organic contaminants in the environment.
10. **Keywords** Atlantic; Birds; Biota; Biotic response; Contaminants; DDT; Eggs; Monitoring; New Brunswick; Newfoundland; Nova Scotia; PCBs; Polychlorinated biphenyls; Prince Edward Island; Seabirds.
11. **Additional Information** None

Ferrous Foundry Database

1. **Datafile Name(s)** Atlantic, Prairies, Quebec, Ontario, British Columbia
- 2a. **Summary Description of Contents** A national database on production facilities and pollution controls for ferrous foundries. This database will eventually be updated to show sources of releases of priority substances and combined with the inventory of Canadian Non-ferrous Foundries database
- 2b. **Purpose of the Database** To identify and characterize ferrous foundries in Canada
- 3a. **Name and Address of Responsible Organization** Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bill Blakeman (819) 953-1105 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - company (location, name)
 - industry category (automotive, agricultural, industrial and railway equipment, valves and pumps)
 - plant capacity (tons/month)
 - sand use (natural, synthetic)
 - additives (seacoal, clay, water)
 - moulding practices (pit casting, match plate, machine)
 - melting facilities (cupola, electric arc furnace, channel induction furnace)
 - pollution abatement measures (afterburners, air filterers, waste dumping)
- 4b. **Geographic Coverage** National, all Canadian ferrous foundries
- 4c. **Data Acquisition Method(s)** Data obtained from questionnaires, reports and provincial offices
- 4d. **Geographic Unit(s) of Measurement** Individual foundries
- 4e. **Period of Record** 1986 - present.
- 4f. **Update Frequency** Not yet determined
- 4g. **Database Hardware/Software Configuration** Microcomputer using DBASE III software
- 4h. **Output Format(s) (tables, maps, etc.)** Text
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** Hardcopies of data are available, but no reports have been published
8. **Languages** Text in English
9. **User Aids Available** None
10. **Keywords** Ferrous foundries; Industry; Metallurgical industry; Mining; Pollution control equipment; Pollution control technology
11. **Additional Information** Additional information is available in *Basic Ferrous Foundry Operations*, by W.J. Williams, Environment Canada, 1986

Flood Risk Mapping - Atlantic Region

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A series of maps which identify flood risk areas along several waterbodies throughout the Atlantic Region.
- 2b **Purpose of the Database** To provide information to engineers, planners, and developers for the purpose of reducing flood damage in the region
- 3a **Name and Address of Responsible Organization** Water Planning and Management, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Thomas Humes (902) 426-3266 FAX: (902) 426-4457
- 3c **Access Mechanisms** Through the responsible organization or contact person.
- 4a **Variables Included (summarized if extensive)**
 - areal extent of flood plains
 - ice presence
 - water levels, flow
- 4b **Geographic Coverage** Atlantic Provinces.
- 4c **Data Acquisition Method(s)** Field surveys, compilation of existing data.
- 4d **Geographic Unit(s) of Measurement** Flood plains of river systems.
- 4e **Period of Record** 1976 - present.
- 4f **Update Frequency** Initial data collection still ongoing.
- 4g **Database Hardware/Software Configuration** Hard copy - includes maps of flood plains.
- 4h **Output Format(s) (tables, maps, etc.)** Maps of various scales.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Cost of map reproduction.
- 7 **Corresponding Printed Sources** Several hydro-technical studies are available which document rainfall, runoff and flooding characteristics of the mapped areas.
- 8 **Languages** English and French.
- 9 **User Aids Available** Several brochures and fact sheets are available.
- 10 **Keywords** Flood damage; Flood risk; Floods; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island; Water; Watersheds
- 11 **Additional Information**
 1. The information is used to direct development away from flood-prone areas through a designation process by federal and provincial environment departments.
 2. Maps are used to foster public awareness of flood-prone areas and for zoning and regulation purposes.
 3. Data are used to assist in flood forecasts for the Saint John River (federal/provincial agreement).

Flood Studies Data

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Flood risk mapping at 1:2000 and 1:5000 scale, hydrotechnical analysis, watershed physiographic data, flood data.
- 2b **Purpose of the Database** To provide the basis for land use planning and management, water resources management and flood damage reduction.
- 3a **Name and Address of Responsible Organization** Water Planning and Management Branch, Inland Waters Directorate, Conservation and Protection, Ontario Region, Environment Canada, P.O. Box 5050, Burlington, Ontario, L7R 4A6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. M.A. Shaw (416) 336-4957 FAX: (416) 336-8901
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - elevations of flows (historical and estimated frequency-based flood information)
 - watershed parameters used in hydrologic and hydraulic computer models including land use and soil cover data.
 - vertical and horizontal data, photogrammetric data included on topographical maps at 1:2000 and 1:5000 scale
- 4b **Geographic Coverage** Selected high priority developing communities in Ontario (with flooding or potential flooding problems).
- 4c **Data Acquisition Method(s)** Engineering studies by consultants, government agencies and universities; monitoring stations, field surveys and aerial surveys.
- 4d **Geographic Unit(s) of Measurement** Site specific to study area/watershed.
- 4e **Period of Record** 1978 - present.
- 4f **Update Frequency** Semi-annually.
- 4g **Database Hardware/Software Configuration** Mainframe/PC.
- 4h **Output Format(s) (tables, maps, etc.)** Maps.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Diskettes requested if this is transfer medium no charge for reasonable requests. On-line cost of \$60/hr; \$30/hr after hours.
- 7 **Corresponding Printed Sources** Information found on reports/maps held by Ontario Ministry of Natural Resources and relevant conservation authorities.
- 8 **Languages** English.
- 9 **User Aids Available** Catalogue of flood risk maps for Ontario.
- 10 **Keywords** Flood risk; Floods; Ontario; Water; Watersheds.
- 11 **Additional Information** None.

Freshwater Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on the receiving environment above and below industrial discharges in British Columbia where anadromous salmonids are present.
- 2b. **Purpose of the Database** To generate data for identifying baseline conditions or conducting environmental impact assessments for industrial discharges.
- 3a. **Name and Address of Responsible Organization** Inland Waters, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bryan Kelso (604) 666-5193 FAX: (604) 666-6858
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - physical and chemical water quality
 - biological factors
 - primary productivity
 - heavy metals in biota
- 4b. **Geographic Coverage** British Columbia.
- 4c. **Data Acquisition Method(s)** Individual monitoring stations, field surveys.
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements in watersheds
- 4e. **Period of Record** 1982 - 1990.
- 4f. **Update Frequency** No longer updated.
- 4g. **Database Hardware/Software Configuration** DATAPOINT 8600 with DATABUS
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Requests must proceed through contact person.
6. **Price Information** Not established at present.
7. **Corresponding Printed Sources** Regional Program Reports (consult contact person)
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Effluents; Environmental impact; Freshwater; Industry; Monitoring; Salmon; Sediments; Water; Water quality.
11. **Additional Information** The database is being converted either to the ORACLE software system or NAQUADAT.

Fuel Additives Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** **Uses** Additives in liquid fuels (gasoline, heavy fuel oils, jet fuels, diesel, furnace/stove oil) produced in or imported to Canada.
- 2b. **Purpose of the Database** To monitor chemicals added to liquid fuels to provide a basis for air emission regulatory policies (e.g. motor vehicle standards)
- 3a. **Name and Address of Responsible Organization** Oil, Gas and Energy Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bernard Madé (819) 953-1135 FAX: (819) 997-3068
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - additive
 - name (ethylene glycol, ethylene dibromide, dyes, etc.)
 - total volume
 - concentration
 - producer of additive
 - fuel (gasoline, heavy fuel oils, jet fuels, diesel, furnace/stove oil)
 - refinery
 - importer
- 4b. **Geographic Coverage** National, all liquid fuel producers and importers in Canada
- 4c. **Data Acquisition Method(s)** Data submitted by refineries and importers under the Fuel Information Regulations of the Canadian Environmental Protection Act - (CEPA)
- 4d. **Geographic Unit(s) of Measurement** Individual refineries/importers
- 4e. **Period of Record** 1978 - present
- 4f. **Update Frequency** As required
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III + software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Database mainly contains confidential information
6. **Price Information** Not applicable
7. **Corresponding Printed Sources** A summary report was prepared in 1989
8. **Languages** Reports in English
9. **User Aids Available** A report describing how the database is planned
10. **Keywords** Energy; Fuel; Fuel additives; Gasoline; Hydrocarbons, Liquid fuels; Oil, Regulatory control
11. **Additional Information** None

Fundy, Gulf of Maine, Georges Bank Resource and Environmental Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** An integrated digital database of maps, geographically referenced numerical data and text files for physical, ecological and socio-economic information for the Bay of Fundy, Gulf of Maine, Georges Bank region.
- 2b **Purpose of the Database** The database is designed to facilitate effective resource management and long term regional planning and act as an educational tool.
- 3a **Name and Address of Responsible Organization** Marine Assessment Division, Marine Environmental Research, Conservation and Protection, Atlantic Region, Environment Canada, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. A.R. McIver (902) 426-9300 FAX: (902) 426-9709
- 3c **Access Mechanisms** For information on obtaining the FMG Database or the spatial analysis software, see 11.
- 4a **Variables Included (summarized if extensive)**
 - physiography and geology; physical, chemical and biological oceanography
 - species distributions (coastal and marine birds, marine mammals, shellfish, fish, lobster, squid)
 - political and administrative boundaries, human resource utilization
 - critical environmental and resource management issues (marine pollution, ocean dumping sites, coastal pollution, shellfish closures, significant and protected areas)
- 4b **Geographic Coverage** Waters and surrounding coastal lands of the Bay of Fundy; Gulf of Maine; St. Georges Bank region.
- 4c **Data Acquisition Method(s)** Data were collected from federal, provincial and state governments, academic institutions and the private sector. Throughout the process of compilation, scientific authorities reviewed and validated the manuscripts.
- 4d **Geographic Unit(s) of Measurement** Maps scaled at 1:2 million.
- 4e **Period of Record** 1988 - present.
- 4f **Update Frequency** Updated periodically.
- 4g **Database Hardware/Software Configuration** CARIS software program for SUN, VAX and PC386-UNIX computers; GEOAXSES for IBM compatible computers.
- 4h **Output Format(s) (tables, maps, etc.)** Maps, tables, text.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Contact distributing agencies in 11.
- 7 **Corresponding Printed Sources** Several papers have been published on the database, for example:
 1. Roberts, S.I. and P.J. Ricketts (1990). "Developing Integrated Information Systems for Marine and Coastal Environments - Lessons from the FMG Project". *Proceedings of the Second National Conference on Geographic Information Systems - GIS for the 1990's*, Ottawa, pp. 157-166.
 2. Ricketts, P.J., A.R. McIver and M.J.A. Butler (1989). "Integrated Information Systems, The Key to Coastal Zone Management: The Fundy/Gulf of Maine/Georges Bank (FMG) Project, A Canadian Case Study". *Coastal Zone '89, Proceedings of the Sixth Symposium on Coastal and Ocean Management*, Vol. 5. American Society of Civil Engineers, New York, pp. 4138-4150.
- 8 **Languages** The database is in English
- 9 **User Aids Available** Pamphlet describing database.
- 10 **Keywords** Bay of Fundy; Biota; Ecological monitoring; Marine; Marine ecosystems; Marine pollution; New Brunswick; Nova Scotia; Pollution.
- 11 **Additional Information**
 1. For information on the FMG Database and components of the database in CARIS or GeoAXSES format (excluding software), contact: Land Registration and Information Service, P.O. Box 310, 16 Station Street, Amherst, N.S. B4H 3Z5 (902) 667-7231.
 2. For information on the AXSES FMG INFOATLAS consisting of the FMG Database with the GeoAXSES Spatial Analysis Software, contact: AXES Inc., Geographic Information Systems, Boutiliers Point, Halifax Co., N.S. B3J 1G0 (902) 826-2440.

Glacier Mass Balance

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Maps, annual data on snow accumulation, snow and ice melt, water discharge, precipitation, and temperature for four glaciers in Alberta and British Columbia.
- 2b **Purpose of the Database** To provide data on annual mass changes of four glaciers in western Canada for models of run-off from glaciated and mountainous basins, and to measure the effects of climate change.
- 3a **Name and Address of Responsible Organization** National Hydrology Research Institute, Conservation and Protection, Environment Canada, 11 Innovation Blvd., Saskatoon, Saskatchewan, S7N 3H5.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. M. Brugman (306) 975-5966 FAX: (306) 975-5143
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - net accumulation in winter
 - net loss in summer
 - net change throughout the year
 - topographic survey data
 - velocity
 - stream runoff
 - stratigraphic analysis
 - meteorological data
- 4b **Geographic Coverage** Four glaciers in Alberta and British Columbia.
- 4c **Data Acquisition Method(s)** Field survey and calculated data.
- 4d **Geographic Unit(s) of Measurement** Individual glaciers.
- 4e **Period of Record** 1965 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with LOTUS and QUATTROPRO.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Two reports prepared every two and five years: *General Information on Observed Glaciers*; *Mass Balance Hydrometeorological Data*.
- 8 **Languages** The database and reports are in English.
- 9 **User Aids Available** *Glacier Mass Balance Measurement (1969)*.
- 10 **Keywords** Alberta; British Columbia; Glaciers; Mass balance.
- 11 **Additional Information**
 1. An updated measurement handbook is in preparation.
 2. Historical data are being checked for reliability and computerized. The database will be up-to-date in about two years.
 3. The data are reported to the World Meteorological Service.
 4. Plans are to include remote sensing data using active microwave and visual imagery using Landsat Mapper laser altimetry. The use of a global positioning system for the purpose of mapping changes in snow line, glacier extent and topography is also being considered.

Great Lakes Hydrologic and Hydraulic Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Historical monthly data, starting in 1900, on lake levels, outflows, ice flow retardation and water supplies to the Great Lakes and diversions.
- 2b. **Purpose of the Database** To support international management of Great Lakes water levels and related studies.
- 3a. **Name and Address of Responsible Organization** Great Lakes - St. Lawrence Study Office, Conservation and Protection, Ontario Region, Environment Canada, Suite 232, Lionel Chevrier Building, 111 Water Street East, Cornwall, Ontario, K6H 6S2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. P. Yee (613) 938-5725 FAX: (613) 938-1924
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - water levels
 - lake and river flows
 - net water supplies to Great Lakes
 - precipitation
 - water diversions
- 4b. **Geographic Coverage** Great Lakes - St. Lawrence System, including the Welland Canal
- 4c. **Data Acquisition Method(s)** Monitoring stations, reports from other agencies.
- 4d. **Geographic Unit(s) of Measurement** Lake, river, drainage basin, or site specific.
- 4e. **Period of Record** 1900 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Mainframe computer, PC's
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers only.
5. **Restrictions and Conditions** None.
6. **Price Information** No charges for reasonably-sized requests
7. **Corresponding Printed Sources** Numerous reports on studies of Great Lakes water levels.
8. **Languages** English in reports, but all data are numeric
9. **User Aids Available** None.
10. **Keywords** Great Lakes; Hydrology; Ice; Lakes; Ontario; Rivers; Snow; St. Lawrence River; Water; Water currents; Water levels; Water management; Water resources
11. **Additional Information** Similar water level/flow data for the Great Lakes are published annually in Canada by Environment Canada's Water Survey of Canada for Canadian stations and by the U.S. National Oceanic and Atmospheric Administration for United States stations.

Great Lakes Sediment Data (GLSEDS)

1. **Datafile Name(s)** NAQUADAT
- 2a. **Summary Description of Contents** Physical, chemical and descriptive data for bottom sediment samples collected in all the Great Lakes between 1968 and 1978
- 2b. **Purpose of the Database** To provide data for research, engineering, planning, assessment by Environment Canada and other federal departments, provincial ministries, consultants and universities
- 3a. **Name and Address of Responsible Organization** Lakes Research Branch, National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L7R 4A6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Norman A. Rukavina (416) 336-4880 FAX: (416) 336-6430
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - descriptive physical properties (colour, consistency, texture, etc.)
 - grain-size parameters
 - chemical parameters
 - major elements
 - metals
 - persistent organic compounds
- 4b. **Geographic Coverage** Great Lakes
- 4c. **Data Acquisition Method(s)**
 1. Field surveys based on sediment sampling
 2. Laboratory analysis of grain size and chemistry
- 4d. **Geographic Unit(s) of Measurement** Individual sites described by latitude, longitude
- 4e. **Period of Record** Varies by lake basin Total record span is 1968 - 1978
- 4f. **Update Frequency** No new data are being entered, editing being done on existing data set
- 4g. **Database Hardware/Software Configuration** Mainframe CDC CYBER 180/830 using the SYSTEM 2000 DBMS with DATAPAC
- 4h. **Output Format(s) (tables, maps, etc.)** Listings and ASCII files suitable for import by microcomputer spreadsheets, databases
5. **Restrictions and Conditions** No confidentiality restrictions Access by NWRI personnel only
6. **Price Information** No charges for standard requests of reasonable size
7. **Corresponding Printed Sources** Summarized and interpreted data appear in a large number of CCIW reports and scientific papers
8. **Languages** English.
9. **User Aids Available** Documentation describing contents, format and access in preparation
10. **Keywords** Great Lakes, Ontario; Sediments; Water quality
11. **Additional Information** This database contains data for nearshore (0-20 m) and offshore sediments. For nearshore sediments, emphasis is placed on physical characteristics while more data is available on chemical characteristics of offshore sediments. Data recovery for nearshore sediments is fixed in format and available for 1 50,000 NTS map sheets. The nearshore data are also in a separate database called Great Lakes Nearshore Sediment File

Great Lakes Water Quality Database (STAR)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Water quality data on the Great Lakes including over 300 different parameter codes quantifying physical, chemical and some biological properties
- 2b **Purpose of the Database** To support the research staff of Environment Canada and Fisheries and Oceans Canada in their research and monitoring studies of the Great Lakes.
- 3a **Name and Address of Responsible Organization** Computing and Programming Section, Research Support Division, National Water Research Institute, Canada Centre for Inland Waters, Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L7R 4A6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bob Duffield (416) 336-4911 FAX: (416) 336-4989
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)** The following groups of parameters are measured:
 - physical properties (e.g. temperature, dissolved oxygen)
 - chemical properties (e.g. trace metals)
 - biological properties

The database contains over 300 different parameter codes.
- 4b **Geographic Coverage** Great Lakes.
- 4c **Data Acquisition Method(s)** Individual monitoring locations on the Great Lakes surveyed by ship
- 4d **Geographic Unit(s) of Measurement** Site specific measurements.
- 4e **Period of Record** 1960 - present.
- 4f **Update Frequency** Ongoing.
- 4g **Database Hardware/Software Configuration** Mainframe CDC CYBER 180/830 computer, using the SYSTEM 2000 DBMS with many FORTRAN programs, GPCP, IMSL and DATAPAC.
- 4h **Output Format(s) (tables, maps, etc.)** Listings, statistical summaries, plots, tapes.
- 5 **Restrictions and Conditions** No confidentiality or access restrictions. Searches are carried out by personnel located at the Canada Centre for Inland Waters.
- 6 **Price Information** No charge for reasonably-sized requests.
- 7 **Corresponding Printed Sources** Various research reports utilize the data contained in this database. Generally, the publications contain summary data whereas the database contains the raw data
- 8 **Languages** English.
- 9 **User Aids Available** Documentation exists giving the available programs and how to execute the programs.
- 10 **Keywords** Great Lakes; Lakes; Monitoring; Water; Water quality.
11. **Additional Information** None.

Historical Manufacturing Centres Project

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Information on Canadian manufacturers which existed between 1850 and 1939 and whose buildings exist in part or in whole today.
- 2b. **Purpose of the Database** Identify, for the Commission on Historic Sites and Monuments of Canada, candidate sites to commemorate the history of Canadian manufacturing.
- 3a. **Name and Address of Responsible Organization** Historical Research Branch, National Historical Parks and Sites Directorate, Canadian Parks Service, Environment Canada, Ottawa, Ontario, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jean-Claude Parent (819) 997-0530 FAX: (819) 953-4909
- 3c. **Access Mechanisms** Through the organization responsible.
- 4a. **Variables Included (summarized if extensive)**
 - geographic location
 - names of the different companies having occupied a particular building
 - manufacturing information
 - date of construction
- 4b. **Geographic Coverage** National; 60 cities are covered.
- 4c. **Data Acquisition Method(s)** Historical research into fire insurance records, use of other secondary sources, on-site research.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1850 to 1939.
- 4f. **Update Frequency** Not up-to-date.
- 4g. **Database Hardware/Software Configuration** Microcomputer TOSHIBA T-1200 with FOXBASE+, version 2.1 software.
- 4h. **Output format(s) (tables, maps, etc.)** Lists and tables.
5. **Restrictions and Conditions** No restrictions.
- 6 **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** None.
8. **Languages** Reports in English. Entries are in either English or French.
9. **User Aids Available** None.
- 10 **Keywords** Historic sites; Industry.
11. **Additional Information** None.

Historic Sites and Monuments Board of Canada/Systems Planning (HSMBC/SP)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on recommendations by the HSMBC on national historic significance.
- 2b. **Purpose of the Database** To provide current information on commemoration of Canadian history, including negative recommendations.
- 3a. **Name and Address of Responsible Organization** Operations Branch, National Historic Parks and Sites Directorate, Canadian Parks Service, Environment Canada, Ottawa, Ontario, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Douglas Sullivan (819) 997-4038 FAX: (819) 953-4909
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - sites of national historic significance
 - sites reviewed but not of national significance
 - thematic representation of sites
 - spatial representation of sites and themes
- 4b. **Geographic Coverage** National
- 4c. **Data Acquisition Method(s)** Through the tri-annual HSMBC meetings
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1919 - present.
- 4f. **Update Frequency** Tri-annually.
- 4g. **Database Hardware/Software Configuration** Mainframe computer using ORACLE database management software. (Accessed through Environment Canada's Departmental Office Technology System - DOTS).
- 4h. **Output Format(s) (tables, maps, etc.)** Standardized reports in text form
5. **Restrictions and Conditions** Restrictions on archaeological site locations and information on sensitive HSMBC recommendations. Searches should be conducted by Operations Branch Staff
6. **Price Information** No charges for reasonably-sized requests
7. **Corresponding Printed Sources** Sites declared to be of national historic significance - tri-annual summary.
8. **Languages** Reports are available in English or French. Most of the database contains codes that are translated into text for printed reports
9. **User Aids Available** None.
10. **Keywords** Historic sites.
11. **Additional Information**
 1. The HSMBC database resides within the Department of the Environment
 2. At present, the database is only accessible through the contact person
 3. Specialized reports, over and above those identified in #7, can be prepared with sufficient notice.

Hydrometric Data File

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data from a Canadian network of stations daily monitoring streamflows, lake levels and sediments
- 2b. **Purpose of the Database** To provide the basis for environmental and resource management planning for water resources in Canada
- 3a. **Name and Address of Responsible Organization** Water Survey of Canada, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Doug Kirk (819) 953-1564 FAX (819) 997-8701
- 3c. **Access Mechanisms** Through the responsible organization. An interactive capability is available
- 4a. **Variables Included (summarized if extensive)** Daily information for lakes or streams on one or more of the following parameters
 - streamflow
 - water level
 - water temperature
 - suspended sediment concentration
 - sediment particle size
 - sediment load
 - ice conditions
 - bed material
- 4b. **Geographic Coverage** National, 3,400 active sites and about 4,200 discontinued sites
- 4c. **Data Acquisition Method(s)** Individual monitoring stations
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements for watersheds
- 4e. **Period of Record** 1900 - present
- 4f. **Update Frequency** Once per year minimum; most recent data available at headquarters approximately six months after collection; current and original records available from regional offices
- 4g. **Database Hardware/Software Configuration** VAX 6410, ORACLE, DECNET
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers
5. **Restrictions and Conditions** None
6. **Price Information** No charge to view data books at Water Survey of Canada offices or at libraries; data books, hard copy sheets or magnetic tapes available at direct incremental cost of provision
7. **Corresponding Printed Sources** Surface water data publications, Historical streamflow/water level summaries, Hydrometric map supplement
8. **Languages** Reports are available in English and French
9. **User Aids Available**
 1. *Supplying Hydrometric and Sediment Data to Users*
 2. *Surface Water Data Reference Index*
 3. *Sediment Data Reference Index*
10. **Keywords** Freshwater, Hydrology, Sediments, Water, Water levels, Water quantity, Water resources, Water temperature
11. **Additional Information**
 1. Database located at the Department of Energy, Mines and Resources, 580 Booth Street, Ottawa, Ontario K1A 0E4
 2. Monthly data summaries are also available
 3. Data on all parameters are not necessarily available for all sites
 4. Surface water data are available on compact discs
 5. Publications in 9 are available from Publications, Conservation and Protection Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3

Ice Concentrations Grid Points Database

- 1 **Datafile Name(s)** Arctic/Hudson Bay/Eastern Seaboard/Great Lakes.
- 2a **Summary Description of Contents** Grid point digitized ice parameters from composite and historical ice charts.
- 2b **Purpose of the Database** To analyse distribution of sea ice to provide historical and statistical information.
- 3a **Name and Address of Responsible Organization** Ice Climatology and Applications Division, Atmospheric Environment Service, Environment Canada, LaSalle Academy, 373 Sussex Drive, Block 'E', Ottawa, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. David Mudry (613) 996-4214 FAX: (613) 563-8480
- 3c **Access Mechanisms** Through the contact person or the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - ice concentration and floe size information for multi-year, second year, first year, grey-white, grey and new ice types
- 4b **Geographic Coverage** Canadian Arctic archipelago, Hudson Bay, Labrador Coast, Gulf of St. Lawrence, Gulf, Great Lakes and Newfoundland waters.
- 4c **Data Acquisition Method(s)** Satellite, aircraft, ship reconnaissance and shore observations.
- 4d **Geographic Unit(s) of Measurement** Grid points mesh ½° latitude by 1° longitude, 5 km grid for Great Lakes.
- 4e **Period of Record** 1959 - 1980 for the Arctic; Hudson Bay and Approaches, 1959-1983; Eastern Canadian Seaboard, 1959-1974; Great Lakes 1960-1979.
- 4f **Update Frequency** Every 5 to 10 years, or when possible.
- 4g **Database Hardware/Software Configuration** Magnetic tape, diskettes (IBM).
- 4h **Output Format(s) (tables, maps, etc.)** Print-out of raw or processed data. Published Atlas for Canadian Arctic Waterways, Eastern Canadian Seaboard and Hudson Bay and Approaches areas. (A Great Lakes Atlas was published by the U.S. National Oceanographic and Atmospheric Administration).
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** \$119.00 for the first tape plus \$29.95 for each additional tape. \$102.75 for the first diskette plus \$7.60 for each additional diskette.
- 7 **Corresponding Printed Sources** See 4h above - Canadian Atlases.
- 8 **Languages** Canadian Atlases are bilingual.
- 9 **User Aids Available** *Manual of Standard Procedures for Observing and Reporting Ice Conditions (MANICE)*.
- 10 **Keywords** Arctic; Climate; Climatology; Ice; Ice floes.
- 11 **Additional Information** The Ice Climatology and Applications Division of the Atmospheric Environment Service has additional ice information (e.g. Composite Charts Database-weekly ice analysis charts; Analysis and Observation Charts Database- daily ice analysis charts) for various regions of Canada. Contact them directly for additional information.

Ice Thickness Point Data

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Weekly measurements of ice thickness and snow depth from shore stations.
- 2b **Purpose of the Database** To provide ice climatological services in Canadian and adjacent international waters for climatological and climate change studies
- 3a **Name and Address of Responsible Organization** Ice Climatology and Applications Division, Atmospheric Environment Service, Environment Canada, LaSalle Academy, 373 Sussex Drive, Block 'E', Ottawa, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Phil Côté (613) 996-4353 FAX: (613) 563-8480
- 3c **Access Mechanisms** Through the contact person or the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - thickness of ice (cm)
 - snow depth (cm)
- 4b **Geographic Coverage** Canadian coastal areas.
- 4c **Data Acquisition Method(s)** Direct measurement at each location.
- 4d **Geographic Unit(s) of Measurement** Specific sites identified by local reference points (approximately 155 sites, 107 of them active).
- 4e **Period of Record** 1947 - present. Exact record varies among stations (majority are less than 30 years).
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Micro IBM 386 with custom FORTRAN program.
- 4h **Output Format(s) (tables, maps, etc.)** Print-out of raw or processed data. Statistical tables. Annual publications
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** \$119.00 for the first tape plus \$29.55 for each additional tape. \$102.75 for the first diskette plus \$7.60 for each additional diskette.
- 7 **Corresponding Printed Sources** Annual Ice Thickness Data Publications are available from the responsible organization.
- 8 **Languages** Publications are bilingual.
- 9 **User Aids Available** *Manual of Standard Procedures for Observing and Reporting Ice Conditions (MANICE)*.
- 10 **Keywords** Arctic; Climate; Climatology; Ice; Ice thickness; Snow.
- 11 **Additional Information** The Ice Climatology and Applications Division of the Atmospheric Environment Service (AES) has additional ice information for various regions of Canada. Contact them directly for additional information.

Impacts of Pesticides on Songbirds

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on measures of biological response of songbirds to pesticides.
- 2b. **Purpose of the Database** To research the impacts of forest spraying on songbirds.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, P.O. Box 400, Fredericton, New Brunswick, E3B 4Z9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dan Busby (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization or contact persons.
- 4a. **Variables Included (summarized if extensive)**
In songbirds:
 - brain acetyl cholinesterase
 - reproductive success
 - growth rate of chicks
- 4b. **Geographic Coverage** New Brunswick and Newfoundland.
- 4c. **Data Acquisition Method(s)** Field collection of specimens.
- 4d. **Geographic Unit(s) of Measurement** Individual songbirds.
- 4e. **Period of Record** 1977 to the present.
- 4f. **Update Frequency** Most summers.
- 4g. **Database Hardware/Software Configuration** Some data available in DBASE files; hardcopy - data files and reports.
- 4h. **Output Format(s) (tables, maps, etc.)** Numerous technical publications (see 7), tables of numbers.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources**
 1. Ernst, W.R., P.A. Pearce and T.L. Pollock (1989). *Environmental Effects of Fenitrothion Use in Forestry: Impacts on Insect Pollinators, Songbirds and Aquatic Organisms*. Environment Canada, Conservation and Protection, Atlantic Region
 2. Busby, D.G., L.M. White and P.A. Pearce. In press. "Effects of Aerial Spraying of Fenitrothion on Breeding White-throated Sparrows". *Journal of Applied Ecology*
 3. Busby, D.G. and L.M. White. In press. "Factors Influencing Variability in Brain Acetylcholinesterase Activity in Songbirds Exposed to Aerial Fenitrothion Spraying" To be published in special publication of *Cholinesterase Symposium* held at annual meeting of the Society of Environmental Toxicology and Chemistry, Toronto, November, 1989.
8. **Languages** English.
9. **User Aids Available** None
10. **Keywords** Birds; Biota; Biotic response; New Brunswick; Newfoundland; Pesticides; Songbirds.
11. **Additional Information** None.

Importance of Wildlife to Canadians

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data from a sample of Canadians on their wildlife related activities and expenditures, based on a survey conducted nationally by Statistics Canada.
- 2b. **Purpose of the Database** To assess the social and economic importance of wildlife to Canadians
- 3a. **Name and Address of Responsible Organization** Socio-Economics Division, Program Planning and Integration Branch, Canadian Wildlife Service, Conservation and Protection Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Fern Filion (819) 997-1360 FAX: (819) 953-6283
Ms. Elaine DuWors (819) 953-1416 FAX: (819) 953-6283
Ms. Anne Haining, Special Surveys Group, Labour and Household Survey's Branch, Statistics Canada, 56A Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6 (613) 951-4592 FAX: (613) 951-0562
- 3c. **Access Mechanisms** Through the responsible organization, data tapes are available from Statistics Canada
- 4a. **Variables Included (summarized if extensive)**
 - participation in wildlife related activities (frequency, incidence, expenditures)
 - attitude (interest, support for wildlife conservation)
 - activity type (consumptive, nonconsumptive, wildlife NGO involvement)
 - wildlife groups (waterfowl, other birds, small mammals, other mammals)
 - personal information on respondents (age, sex, education, urban/rural residence, personal income, marital status, relation to head of family, labour force status industry, occupation)
- 4b. **Geographic Coverage** National, all provinces
- 4c. **Data Acquisition Method(s)** Self-administered mail-back questionnaires to individuals
- 4d. **Geographic Unit(s) of Measurement** Individual respondents
- 4e. **Period of Record** 1981, 1987
- 4f. **Update Frequency** Every five years following the Census schedule. The next update covers activity in the year 1991
- 4g. **Database Hardware/Software Configuration** Mainframe computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** The information must satisfy a minimum level of statistical reliability before being released
6. **Price Information** No charge by the Canadian Wildlife Service for advisory services prices for tables or tapes available on request from Statistics Canada
7. **Corresponding Printed Sources** 1981 and 1987 report series (see 11)
8. **Languages** Reports are bilingual
9. **User Aids Available** User guides available for the 1981 and 1987 surveys
10. **Keywords** Bird watching; Hunting; Public attitudes; Wildlife
11. **Additional Information**
 1. All 10 provincial wildlife agencies co-sponsor the survey
 2. Five reports were produced based on the 1981 survey covering the following topics: highlights, user guide, economic significance of wildlife-related activities (2 reports) demand for wildlife to the year 2001
 3. Three reports have been produced based on the 1987 survey covering the following topics: highlights, user guide, economic significance of wildlife-related activities. A fourth report on trends in survey results between 1981 and 1987 is in preparation
 4. Similar reports will be prepared based on the 1991 survey results

Index to Storm Rainfalls in Canada

1. **Datefile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Published reports (one per storm event) each containing five pages of maps and graphs, produced by computer software, depicting the synoptic conditions, time distribution of rainfall and total depth of rain over the area of the storm
- 2b. **Purpose of the Database** To provide a series of storm analyses for general reference and for use in major studies (e.g. hydro dams, reservoirs) to determine the "probable maximum precipitation" over both large and small drainage basins.
- 3a. **Name and Address of Responsible Organization** Climate Adaptation Branch, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. W. Hogg (416) 739-4348 FAX: (416) 739-4297
- 3c. **Access Mechanisms** Through the responsible organization or appropriate public libraries.
- 4a. **Variables Included (summarized if extensive)**
 - date
 - storm centre (province)
 - central depth
 - duration
 - area covered
 - depth-area duration curves
- 4b. **Geographic Coverage** Canada (approximately 1,000 storms analysed).
- 4c. **Data Acquisition Method(s)** Rainfall data obtained from the National Archive database.
- 4d. **Geographic Unit(s) of Measurement** Individual storm events.
- 4e. **Period of Record** 1901 - present.
- 4f. **Update Frequency** New storms are analysed periodically; the data, however, would be collected two to three years previously.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports.
5. **Restrictions and Conditions** None.
6. **Price Information** \$5 per completed storm analysis report; cost of professional and technical time for custom storm analysis.
7. **Corresponding Printed Sources** Storm Rainfall in Canada (each storm analysis is published as a separate document in this series).
8. **Languages** The reports are bilingual.
9. **User Aids Available** *An Index to Storm Rainfall in Canada.*
10. **Keywords** Climate; Floods; Precipitation; Storms; Weather.
11. **Additional Information** None.

Industrial Water Use Surveys (INSURVS)

1. **Datefile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on water use from nationally distributed mining, manufacturing, hydroelectrical and thermal power production companies obtained through periodic surveys of water intake, discharge, use, cost and consumption.
- 2b. **Purpose of the Database** To collect data on water use by industry to direct research and applied studies.
- 3a. **Name and Address of Responsible Organization** Economics and Conservation Branch, Ecosystem Sciences and Evaluation Directorate, Environment Canada, 9th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Don Tate (819) 953-3478 FAX: (819) 997-8701
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - water intake by
 - * source (surface, ground, combined)
 - * treatment
 - * purpose (cooling, processing, steam generation)
 - water discharge by
 - * point (municipal sewer, lake, river, ocean)
 - * treatment (filtration, coagulation, screening)
 - water cost by component
 - recirculation by purpose (see above)
 - gross water use
 - water use and consumption rates
- 4b. **Geographic Coverage** National, covering over 7,000 industrial companies, all provinces and territories represented.
- 4c. **Data Acquisition Method(s)** Questionnaires and follow-up telephone interviews.
- 4d. **Geographic Unit(s) of Measurement** Individual industrial companies.
- 4e. **Period of Record** 1972 - present.
- 4f. **Update Frequency** Every 5 years.
- 4g. **Database Hardware/Software Configuration** Mainframe computer, ORACLE, LOTUS.
- 4h. **Output Format(s) (tables, maps, etc.)** Detailed data tables available.
5. **Restrictions and Conditions** As specified on survey forms. Searches should be conducted for users by personnel of the Branch.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Data are summarized in report form (see 11)
8. **Languages** Reports available in French and English.
9. **User Aids Available** None.
10. **Keywords** Effluents; Industry; Liquid wastes; Wastes; Water; Water treatment; Water purification; Water use; Pollutants.
11. **Additional Information**
 1. Several reports have been produced: *Manufacturing Water Use Survey*, SSS #17; *Water Use in Canadian Industry*, SSS #18, #19, #24.
 2. Reports are available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.
 3. The database will become a major segment of the NAQUADAT database when operational.

Information on Regulated Emissions of the Petroleum Refining Industry in Quebec

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information of regulated emissions of petroleum refineries in Quebec.
- 2b. **Purpose of the Database** Determining compliance with the regulations. Used for the production of reports and the analysis of time trends.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Guy Coulombe (514) 283-2337 FAX: (514) 283-4423
- 3c. **Access Mechanisms** Through the organization responsible.
- 4a. **Variables Included (summarized if extensive)**
 - pH
 - suspended solids
 - sulphates
 - NOX
 - phenols
 - oils and greases
 - refined crude oil
 - reference crude rate
- 4b. **Geographic Coverage** Province of Quebec.
- 4c. **Data Acquisition Method(s)** Data are provided by the companies.
- 4d. **Geographic Unit(s) of Measurement** Data are reported by industrial site
- 4e. **Period of Record** Since 1980.
- 4f. **Update Frequency** Each year.
- 4g. **Database Hardware/Software Configuration** Microcomputer; DBASE
- 4h. **Output format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** Data are accessible through the provisions of the Access to Information Law.
6. **Price Information** None.
7. **Corresponding Printed Sources** An annual report (internal publication with limited distribution).
8. **Languages** French.
9. **User Aids Available** None.
10. **Keywords** Air quality; Emissions; Industry; Oil; Oil and gas industry; Quebec, Refineries
11. **Additional Information** None.

Information System on Aquatic Birds of Quebec and their Habitats (SIDOQ)

1. **Datafile Name(s)** SIDOQ
- 2a. **Summary Description of Contents** Information on approximately one hundred species of aquatic birds of the St. Lawrence River and various tributaries present during migration and/or in winter. Includes descriptions of the aquatic environments in which they are found (approximately 350 zones)
- 2b. **Purpose of the Database** Environmental impact assessments Impacts of oil spills
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service Conservation and Protection, Quebec Region, Environment Canada, 9th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Quebec, G1V 4H5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr Denis Lehoux (418) 648-2544 FAX: (418) 649-6475
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)** For 350 zones along the St. Lawrence River, information is available by season (spring, autumn, winter) on aquatic bird populations, the density of populations, species diversity, and period of species use Area of various types of aquatic habitats (km²) along the St. Lawrence River
- 4b. **Geographic Coverage** St. Lawrence River, Estuary and Gulf; Ottawa River, Richelieu River, Saguenay River, Lake Saint-Jean
- 4c. **Data Acquisition Method(s)** Aerial and terrestrial analysis
- 4d. **Geographic Unit(s) of Measure** For bird populations - 350 zones, each about 15 kms in length. For habitat - 4 000 units of 1 km²
- 4e. **Period of Record** 1974 to 1985
- 4f. **Update Frequency** No updating
- 4g. **Database Hardware/Software Configuration** On hard disk, IBM-PC, KMAN
- 4h. **Output format(s) (tables, maps, etc.)** Tables and figures only
5. **Restrictions and Conditions** No restrictions
6. **Price Information** No charge
7. **Corresponding Printed Sources** Two reports are published. *La sauvagine dans le système du Saint-Laurent (SCF)*; *Milieux humides le long du fleuve Saint-Laurent* - Working Paper number 45, Lands Directorate
8. **Languages** The information and the report on wild birds are available in French The publication on wetlands is available in each of the official languages
9. **User Aids Available** None
10. **Keywords** Biota, Birds, Habitats, Migratory birds, Quebec, St. Lawrence River, Waterfowl, Wildlife
11. **Additional Information** None

Inventories of Colonial Waterbirds Nesting on the Canadian Great Lakes

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Results of inventories (colony survey and nest counts) of colonial waterbirds nesting on the Canadian portions of the Great Lakes.
- 2b **Purpose of the Database** To monitor trends in Great Lakes colonial waterbird populations as a basis for conservation/management decisions.
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Ontario Region, Environment Canada, 49 Camelot Avenue, Nepean, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Hans Blokpoel (613) 952-2410 FAX: (613) 952-9027
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - location of colony sites
 - species nesting
 - number of nests per species
 - colony site information
- 4b **Geographic Coverage** Great Lakes.
- 4c **Data Acquisition Method(s)** On-site nest counts made during the breeding season.
- 4d **Geographic Unit(s) of Measurement** Colony or nesting site.
- 4e **Period of Record** 1989 - present.
- 4f **Update Frequency** To be updated approximately every 5-10 years.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE III software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, maps, diskettes and eventually, an atlas.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Not yet determined.
- 7 **Corresponding Printed Sources** Reports in progress.
- 8 **Languages** English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Bird colonies; Birds; Great Lakes; Ontario; Waterfowl; Wildlife.
- 11 **Additional Information** Data collection is currently in progress.

Inventory of Canadian Non-ferrous Foundries

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A national database on production facilities for non-ferrous foundries. The database will eventually be updated to show sources of releases of priority substances and combined with the Ferrous Foundry Database.
- 2b **Purpose of the Database** To identify and characterize non-ferrous foundries in Canada.
- 3a **Name and Address of Responsible Organization** Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bill Blakeman (819) 953-1105 FAX: (819) 994-7762
- 4c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - company (name, address)
 - metals used
 - products (casting, valves, pumps, shipbuilding components, aircraft components)
 - plant capacity (tons/month)
 - size range of castings (pounds)
 - non-ferrous alloy grades
 - moulding facilities
 - melting facilities
 - pattern and machine shop facilities
 - economic forecast
 - information source
- 4b **Geographic Coverage** National, all 103 foundries.
- 4c **Data Acquisition Method(s)** Information from available reports.
- 4d **Geographic Unit(s) of Measurement** Plant specific information.
- 4e **Period of Record** 1989 - present.
- 4f **Update Frequency** Not yet determined.
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE III.
- 4h **Output Format(s) (tables, maps, etc.)** Text.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** One report has been produced (see 11).
- 8 **Languages** English text.
- 9 **User Aids Available** None.
- 10 **Keywords** Industry; Metallurgical industry; Metals; Mining; Pollution control.
- 11 **Additional Information**
 1. The inventory summarizes data from a one-time national survey that gives no details on waste production or pollution controls. The industry is not regulated federally. This survey provides baseline data against which data from future surveys, if any, can be compared.
 2. Additional information is found in: Cameron, D. (1987). *Inventory of the Canadian Non-ferrous Foundries*. Environment Canada, Ottawa.
 3. The publication above is available from the responsible organization.

Inventory of Sensitive Areas in the St. Lawrence River

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Map of environmentally sensitive sites in the St. Lawrence River (spills of hydrocarbons or other hazardous materials). Information to minimize impacts on wildlife, birds, and water use.
- 2b. **Purpose of the Database** Evaluation of the impacts of oil spill incidents.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Claude Rivest (514) 283-2345 FAX: (514) 283-4423
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- water users
 - types of sensitive areas
- 4b. **Geographic Coverage** Quebec - populated areas
- 4c. **Data Acquisition Method(s)** Consultations with experts
- 4d. **Geographic Unit(s) of Measure** Point data and data for zones
- 4e. **Period of Record** 1987 - to present.
- 4f. **Update Frequency** Approximately once every 5 years.
- 4g. **Database Hardware/Software Configuration** Maps
- 4h. **Output format(s) (tables, maps, etc.)** Maps.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** None.
7. **Corresponding Printed Sources** Maps and Reports.
- 8 **Languages** French.
- 9 **User Aids Available** None.
10. **Keywords** Accidents; Environmentally sensitive areas; Oil; Pollution control technology; Quebec; Spills; St. Lawrence River
11. **Additional Information** The system is being automated. The maps are, however, available for consultation.

Lake Superior Shore
Property Inventory and Damage Survey

- 1 **Datafile Name(s)** SURVEY DBF, QUESTION DBF
- 2a **Summary Description of Contents** Data on flood/erosion damage potential from a 1987 engineering survey of Canadian Lake Superior shoreline properties and from a questionnaire survey of property owners
- 2b **Purpose of the Database** To identify shore damage potential and provide data for Lake Superior at a level comparable to the lower Great Lakes
- 3a **Name and Address of Responsible Organization** Canadian Centre for Inland Waters, Water Planning and Management Branch, Inland Waters Directorate, Conservation and Protection, Ontario Region, Environment Canada, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. William Bien (416) 336-4948 FAX: (416) 336-4906
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
- property photo inventory
 - distance of structures from waterline
 - structure type and quality
 - elevation of lower openings
 - residential/seasonal status
 - potential for damage and other information
 - protection expenditures
- 4b **Geographic Coverage** Canadian Lake Superior shoreline, Thunder Bay, Sault Ste. Marie (approx. 2600 properties)
- 4c **Data Acquisition Method(s)** Engineering survey, questionnaire survey
- 4d **Geographic Unit(s) of Measurement** Site specific measurements
- 4e **Period of Record** Engineering survey May - September 1987 Survey Questionnaire - re-protection expenditures in previous 5 years
- 4f **Update Frequency** There are no plans at present to update this database
- 4g **Database Hardware/Software Configuration** IBM/PC compatible, DBASE III
- 4h **Output Format(s) (tables, maps, etc.)** May be customized from original data
- 5 **Restrictions and Conditions** Some confidentiality restrictions may apply
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** *Lake Superior Shore Property Damage Assessment and Social Impact Assessment*, study report by Marshall, Macklin, Monaghan Prepared for Environment Canada and Ontario Ministry of Natural Resources 1988
- 8 **Languages** English
- 9 **User Aids Available** Not applicable
- 10 **Keywords** Erosion; Flood damage, Floods, Great Lakes, Ontario
- 11 **Additional Information** None

Lead Additives in Gasoline (LAG)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Data on quantities and concentrations of lead additives in gasoline imported to and produced in Canada.
- 2b **Purpose of the Database** To monitor compliance with the leaded gasoline regulations.
- 3a **Name and Address of Responsible Organization** Commercial Chemicals Branch, Conservation and Protection, Environment Canada, 14th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Harris (819) 953-1673 FAX: (819) 953-7155
- 4c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - quantities of gasoline produced in Canada and imported into Canada
 - quantities of lead added to gasoline
 - concentration of lead in gasoline
- 4b **Geographic Coverage** Canada.
- 4c **Data Acquisition Method(s)** Quarterly reports from refineries and importers.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** 1974 - present.
- 4f **Update Frequency** Annually, quarterly.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE III + software
- 4h **Output Format(s) (tables, maps, etc.)** Tables of numbers.
- 5 **Restrictions and Conditions** Data submitted by refineries and importers is protected business information.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** English and French.
- 9 **User Aids Available** None.
- 10 **Keywords** Contaminants; Hydrocarbons; Fuel; Fuel additives; Gasoline; Lead; Oil; Regulatory control.
- 11 **Additional Information** None.

Leaded Gasoline Data Management System

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Results of a sample of lead from service stations in Quebec.
- 2b **Purpose of the Database** In support of the regulations governing the level of lead in gasoline.
- 3a **Name and Address of Responsible Organization** Environmental Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Anne Marie Charter (514) 283-2458 FAX: (514) 283-4423
- 3c **Access Mechanisms** Through the organization responsible.
- 4a **Variables Included (summarized if extensive)** Concentrations of lead in gasoline.
- 4b **Geographic Coverage** Province of Quebec.
- 4c **Data Acquisition Method(s)** Sampling network (variable over time).
- 4d **Geographic Unit(s) of Measurement** Each sampling site is a service station. service.
- 4e **Period of Record** 1983 to date.
- 4f **Update Frequency** Yearly in the past; not currently up-to-date.
- 4g **Database Hardware/Software Configuration** Microcomputer, FOXBASE software.
- 4h **Output format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** No restrictions - data are not confidential.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** An annual report.
- 8 **Languages** French.
- 9 **User Aids Available** None.
- 10 **Keywords** Air pollution; Emissions; Fuel; Gasoline; Hydrocarbons; Lead; Motor vehicles; Pollution; Quebec.
- 11 **Additional Information** KNOWLEDGEMAN software was used until 1988. In 1988 A new system was created in FOXBASE in order to include a wider variety of unleaded gasolines. Only a portion of the base is currently accessible. FOXBASE can not be used to access data for the years between 1983 and 1988. The two systems are distinct.

LRTAP Biomonitoring Sites

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Information on waterfowl productivity, water chemistry, fish status and morphological data for 464 individual waterbases.
- 2b **Purpose of the Database** To monitor the effects of varying deposition rates of airborne pollutants on waterfowl populations and aquatic ecosystems.
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Ontario Region, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Don McNicol (613) 952-2409 FAX: (613) 952-9027
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - biotic:
 - waterfowl and loon density
 - broods and young produced
 - fish status
 - aquatic:
 - pH, alkalinity, conductivity
 - major ions
 - dissolved organic carbon
 - total phosphorus
 - water colour
 - lake size, length, location and depth
- 4b **Geographic Coverage** Ontario (Muskoka - 232 lakes; Algoma - 234 lakes)
- 4c **Data Acquisition Method(s)** Waterfowl production field surveys, fish sampling surveys, water sampling.
- 4d **Geographic Unit(s) of Measurement** Lakes and open water bodies referenced by latitude, longitude.
- 4e **Period of Record** 1988 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** SAS PC-based, SPANS
- 4h **Output Format(s) (tables, maps, etc.)** Not yet determined.
- 5 **Restrictions and Conditions** None expected
- 6 **Price Information** Not yet determined.
- 7 **Corresponding Printed Sources** Not yet determined.
- 8 **Languages** English.
- 9 **User Aids Available** Will be developed.
- 10 **Keywords** Acid precipitation; Biotic response; GIS; Habitats; Monitoring; Ontario; Waterfowl; Wildlife.
- 11 **Additional Information**
 1. Food chain monitoring will be conducted on 20 lakes per area
 2. This database is presently being developed, based on aquatic invertebrates and fish sampling methods developed in previous studies.

Maritime Nest Records Scheme

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Records of nesting birds or colonies of birds observed during the nesting season in the Maritimes
- 2b **Purpose of the Database** To provide a databank for bird nesting research in the Maritime Provinces for researchers studying the breeding biology of birds
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 1590 Sackville, New Brunswick, E0A 3C0
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. A. J. Erskine (506) 536-3025 FAX: (506) 536-3028
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - bird species
 - date, location
 - clutch size, colony size
 - breeding success
 - other data variables collected
- 4b **Geographic Coverage** New Brunswick, Nova Scotia, Prince Edward Island
- 4c **Data Acquisition Method(s)** Nest record cards are received from volunteer co-operators at the end of the nesting season.
- 4d **Geographic Unit(s) of Measurement** Individual nests/colonies referenced by locality name, county, province
- 4e **Period of Record** 1960 - present
- 4f **Update Frequency** Annually
- 4g **Database Hardware/Software Configuration** Card files
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text
- 5 **Restrictions and Conditions** Original data (in quantity) usable only in Sackville, small quantities may be loaned or photocopied
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** An annual report summarizing the number of co-operators and the number of record cards received for each species
- 8 **Languages** The record cards are in the language of the co-operator, the report is available in either English or French
- 9 **User Aids Available** An instruction card is available for co-operators
- 10 **Keywords** Biota; Birds; Nesting; New Brunswick; Nova Scotia; Prince Edward Island; Wildlife
- 11 **Additional Information** Contacts for nest record schemes, managed by CWS or provincial governments, for other regions and provinces of Canada can be obtained from the responsible organization

Maritime Provinces Strategic Land Use Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A twenty year update of land use in the Maritime Provinces based on an expanded Canada Land Inventory (circa 1967-1987) classification derived from Landsat Thematic Mapper Imagery interpretation.
- 2b. **Purpose of the Database** To provide a land use base for resource management documentation of potential environmental concerns and to use monitoring data to link cause to effect, as required in the environmental assessment process. The SPANS universes created form a base on which to relate a wide variety of other (both SPANS and non-SPANS formatted) GIS datasets.
- 3a. **Name and Address of Responsible Organization** Water Planning and Management, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2H 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Wilson (902) 426-4197 FAX: (902) 426-4457
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)** 21 classes of land activity and cover (e.g. urbanization, institutions, row crop agriculture, rough pasture, mines, waste disposal sites, clearcuts, productive forest, recreation and conservation areas).
- 4b. **Geographic Coverage** New Brunswick, Nova Scotia, Prince Edward Island.
- 4c. **Data Acquisition Method(s)** Landsat Thematic Mapper Imagery with PROCOM device to project images onto 1:50,000 NTS map sheets.
- 4d. **Geographic Unit(s) of Measurement** Latitude and longitude.
- 4e. **Period of Record** 1968, 1987.
- 4f. **Update Frequency** Undetermined.
- 4g. **Database Hardware/Software Configuration** IBM PC with SPANS GIS.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, graphs.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** CLDS/CGIS catalogue of reports.
10. **Keywords** Atlantic Canada; GIS; Land; Land use; New Brunswick; Nova Scotia; Prince Edward Island; Satellite imagery.
11. **Additional Information**
 1. Land use change overlays are now being developed to provide data on environmental response to human activity for the five-year regional state of the environment report.
 2. Fact sheets covering various aspects of land use change are in preparation and a regional overview of change is planned.
 3. The three Maritime Provinces are complete in SPANS format.

Maritime Wetlands Inventory

1. **Datafile Name(s)** Cartographic- Wetlands Atlas for New Brunswick, Nova Scotia and Prince Edward Island. Tabular- Summaries available by watershed, and county from computer database.
- 2a. **Summary Description of Contents** Atlas maps at the scale of 1:50,000 covering classification and evaluation for all wetlands in New Brunswick, Nova Scotia and Prince Edward Island. Computerized database permits data retrieval and summary listings.
- 2b. **Purpose of the Database** To identify, classify and evaluate freshwater and marine wetlands to provide data which will help protect these valued ecosystems.
- 3a. **Name and Address of Responsible Organization** Wildlife Conservation and Environmental Quality, Canadian Wildlife Service, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 1590, Sackville, New Brunswick, E0A 3C0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Al Smith (506) 536-3025 FAX: (506) 536-3028
Mr. Al Hanson (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the Canadian Wildlife- Atlantic Region Office or through provincial wildlife divisions.
- 4a. **Variables Included (summarized if extensive)**
 - location, watershed identification area
 - pH, conductivity
 - type and class of vegetation, dominant vegetation, interspersions, evaluation score
 - substrate type, islands, % high and % low marsh (for marine wetlands)
- 4b. **Geographic Coverage** All wetlands over 0.25 ha in New Brunswick, Nova Scotia and Prince Edward Island.
- 4c. **Data Acquisition Method(s)** Air photo interpretation with field checks.
- 4d. **Geographic Unit(s) of Measurement** Individual wetlands referenced by UTM, topographic map number and watershed.
- 4e. **Period of Record** 1978 - 1988.
- 4f. **Update Frequency** Wetland updates are added to the inventory as they are reported.
- 4g. **Database Hardware/Software Configuration** IBM PC with custom software; paper file of maps at the scale of 1:50,000.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps; summary tables by watershed, county, province.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for general information; duplication costs for the maps.
7. **Corresponding Printed Sources** Final reports, summary documents and workbooks have been prepared for each province.
8. **Languages** The database is in English.
9. **User Aids Available** Coding formats and legends are attached to maps and data summaries.
10. **Keywords** New Brunswick; Nova Scotia; Plants; Prince Edward Island; Wetlands.
11. **Additional Information** None.

Maritimes Breeding Bird Atlas

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Maps of the distribution of birds breeding in the Maritime Provinces from 1986 to 1990. The atlas in preparation will provide supporting text.
- 2b. **Purpose of the Database** To produce accurate and up-to-date maps of the distribution of breeding birds in the Maritime Provinces for establishing baseline conditions against which future observations can be compared and trends assessed.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 1590, Sackville, New Brunswick, E0A 3C0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. A. J. Erskine (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - bird species
 - nesting (possible, probable, confirmed)
 - location
 - date
- 4b. **Geographic Coverage** Maritime provinces.
- 4c. **Data Acquisition Method(s)** Field data were collected by a region-wide network of volunteers, including CWS staff, over a five year period.
- 4d. **Geographic Unit(s) of Measurement** Breeding records are mapped on a 10 X 10 km grid covering the region.
- 4e. **Period of Record** 1986 - 1990.
- 4f. **Update Frequency** No immediate update is planned, possibly repeated after 20-25 years
- 4g. **Database Hardware/Software Configuration** IBM compatible computer with special software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps.
5. **Restrictions and Conditions** None, following publication
6. **Price Information** No charge for reasonably sized requests
7. **Corresponding Printed Sources** An atlas containing distribution maps and accompanying text is slated for publication.
8. **Languages** The database is in English.
9. **User Aids Available** Atlasser Handbook Breeding Season Chart Code Combinations.
10. **Keywords** Biota; Birds; New Brunswick; Nova Scotia; Prince Edward Island; Wildlife
11. **Additional Information** None.

May Breeding Population Survey - Waterfowl

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Estimates of breeding waterfowl by species and strata in the Prairie Provinces, Northwest Territories, Yukon Territory, Ontario and north-central United States
- 2b. **Purpose of the Database** To provide estimates of breeding waterfowl populations for trend analysis and to set bag and possession limits
- 3a. **Name and Address of Responsible Organization** Population Management Section, Canadian Wildlife Service, Environment Canada, Room 513, 269 Main Street, Winnipeg, Manitoba, R3C 1B2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dale Caswell (204) 983-5260 FAX (204) 983-4506
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - ponds (number, type, water level)
 - # of waterfowl by species (current year, 10 year mean, per cent change)
 - # of coots
 - # of Canada geese
- 4b. **Geographic Coverage** Prairie Provinces, Yukon Territory, Northwest Territories, Ontario, North and South Dakota, Montana, portions of Wisconsin
- 4c. **Data Acquisition Method(s)** Aerial surveys for bird counts for entire area by U.S. Fish and Wildlife Service, ground counts by Canadian Wildlife Service along transects in some areas for air survey correction factor and habitat data collection
- 4d. **Geographic Unit(s) of Measurement** Individual ponds referenced by latitude, longitude
- 4e. **Period of Record** 1955 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Paper files, reports
- 4h. **Output Format(s) (tables, maps, etc.)** Tables in reports
5. **Restrictions and Conditions** None
6. **Price Information** No charge for reports
7. **Corresponding Printed Sources** One report per region is prepared annually entitled, *Waterfowl Breeding Status*
8. **Languages** The report is in English
9. **User Aids Available** There is a standard operations and procedures manual for waterfowl population surveys
10. **Keywords** Biota; Birds; Geese, Migratory birds, Waterfowl, Wildlife
11. **Additional Information** The breeding bird survey data are sent to the U.S. Fish and Wildlife Service in Washington where they are analysed. An annual report is then returned to the Canadian Wildlife Service

Meteorological Data System (MET)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on wind speed, wind direction, air temperature, water temperature and relative humidity at stations in Canada.
- 2b. **Purpose of the Database** To provide data for scientists, government agencies and consulting engineers for climatological studies, lake circulation models, and storm surge models.
- 3a. **Name and Address of Responsible Organization** National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), Conservation and Protection, Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L7R 4A6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. J. Bull (416) 336-4634 FAX: (416) 336-4989
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - wind speed
 - wind direction
 - air temperature
 - water temperature
 - relative humidity
 - transmissometer
- 4b. **Geographic Coverage** Ontario, with periodic special projects elsewhere in Canada, including Northwest Territories.
- 4c. **Data Acquisition Method(s)** Individual monitoring stations.
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements referenced by latitude and longitude.
- 4e. **Period of Record** 1969 - present.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** CDC mainframe CYBER 180/830, using custom FORTRAN software. Data are stored on magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Listings, statistical summaries, plots (time series), tapes
5. **Restrictions and Conditions** No confidentiality or access restrictions. Searches are carried out by personnel located at CCIW.
6. **Price Information** No charges for reasonably-sized requests.
7. **Corresponding Printed Sources** Various research reports use the data contained in the database. Generally, the publications contain summary data whereas the database contains the raw data.
8. **Languages** English.
9. **User Aids Available** Documentation is available giving a summary of each program and how to execute it, as well as tape format.
10. **Keywords** Climate; Humidity; Temperature; Water temperature; Weather; Winds.
11. **Additional Information** None

Migratory Birds

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Results of migratory bird surveys and observations for the Prairie Provinces provided by a variety of sources.
- 2b. **Purpose of the Database** To provide baseline inventory data for migratory bird species for determining habitat priorities and establishing habitat protection programs.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, Room 210, 4999-98 Avenue, Edmonton, Alberta, T6B 2X3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. T. Coleman (403) 468-8908
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - bird species
 - year, season
 - location
 - habitat ecoregion/subregion
- 4b. **Geographic Coverage** Prairie Provinces.
- 4c. **Data Acquisition Method(s)** Ground and aerial sightings.
- 4d. **Geographic Unit(s) of Measurement** Ecoregion/subregion.
- 4e. **Period of Record** 1965 - 1986.
- 4f. **Update Frequency** Unknown.
- 4g. **Database Hardware/Software Configuration** IBM compatible computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Lists.
5. **Restrictions and Conditions** Access to rare and endangered species is restricted; only selected distributions are available for specific requests.
6. **Price Information** Contact responsible organization.
7. **Corresponding Printed Sources** *Priority Migratory Bird Habitat of Canada's Prairie Provinces.*
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Alberta; Birds; Habitats; Manitoba; Migratory birds; Prairies; Saskatchewan, Wildlife.
11. **Additional Information** The publication in 7 is available from Communications at the address in 3a.

Migratory Game Bird Population Status

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Aerial surveys and ground counts of breeding waterfowl populations and habitat conditions, and wintering area inventories of waterfowl across North America. Surveys are conducted by Canadian Wildlife Service, U.S. Fish and Wildlife Service and province/state/territorial wildlife biologists
- 2b. **Purpose of the Database** To establish trends in population size and monitor long-term patterns in waterfowl abundance.
- 3a. **Name and Address of Responsible Organization** Migratory Bird Conservation Division, Migratory Birds and Wildlife Conservation Branch, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathryn Dickson (819) 953-1415 - FAX: (819) 953-6283
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - population indices for each species of waterfowl in various seasons
 - pond counts in western Canada and northwestern United States
 - waterfowl species (ducks, geese, swans)
- 4b. **Geographic Coverage** North American, all provinces, territories and states
- 4c. **Data Acquisition Method(s)** Cooperative aerial and ground surveys
- 4d. **Geographic Unit(s) of Measurement** Varies among surveys.
- 4e. **Period of Record** 1955 - present.
- 4f. **Update Frequency** Annually, following entry of all historical data sets.
- 4g. **Database Hardware/Software Configuration** DOS-based microcomputer with DBASE III +, or QUATTRO software, ASCII files can also be produced.
- 4h. **Output Format(s) (tables, maps, etc.)** Computer files on floppy disks. Selected parts of files, summary tables and figures can be prepared in hardcopy if necessary
5. **Restrictions and Conditions** Users must have a knowledge of usefulness and limitations of avian census techniques; data on rare, threatened or endangered species are restricted
6. **Price Information** No charge. Requester must submit floppy disks with request
7. **Corresponding Printed Sources** An annual report - *Status of Waterfowl* - is produced by the U.S. Fish and Wildlife Service. A semi-annual report - *Status of Waterfowl in Canada* - is produced by CWS.
8. **Languages** Both reports are available in French and English; database tables contain only numbers.
9. **User Aids Available** Manual of standard operating procedures for the waterfowl breeding population surveys.
10. **Keywords** Biota; Birds; Migratory birds; United States; Waterfowl; Wildlife.
11. **Additional Information** Publications in 7 and 9 are available from the responsible organization.

Mine Compliance Data

1. **Datafile Name(s)** Minestat
- 2a. **Summary Description of Contents** A national database on liquid effluent for base metal, iron ore, uranium, gold and silver mines
- 2b. **Purpose of Database** To determine compliance with mining effluent regulations
- 3a. **Name and Address of Responsible Organization** Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bill Wong (819) 997-2294 FAX (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible agency
- 4a. **Variables Included (summarized if extensive)**
 - mine (name, company, location, mining method, capacity, ore tonnage and grade)
 - minerals in ore (mainly gold, silver, zinc, lead, copper, nickel, iron)
 - cyanide removal method (natural degradation, no cyanide, sulphur dioxide/ar, hydrogen peroxide)
 - type of waste treatment (tailings pond, settling pond, drainage)
 - effluent characteristics
 - contaminant concentrations (lead, cyanide, zinc, copper, nickel, arsenic)
 - pH
 - total suspended matter
- 4b. **Geographic Coverage** National, including all provinces and territories
- 4c. **Data Acquisition Method(s)** Mines under compliance report monthly to the provinces or territories
- 4d. **Geographic Unit(s) of Measurement** Individual mines
- 4e. **Period of Record** 1986 - 1987
- 4f. **Update Frequency** Irregularly
- 4g. **Database Hardware/Software Configuration** COMPAQ DESKPRO 286 with DBASE III + software for base metal mines and SYMPHONY software for gold mines
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Some data may be restricted, contact responsible organization
6. **Price Information** No charge for reasonably-sized requests
7. **Corresponding Printed Sources** Periodic reports produced, see 11 for most recent report
8. **Languages** Reports are bilingual
9. **User Aids Available** None
10. **Keywords** Effluents; Industry: Liquid wastes, Mining; Pollutants; Wastes
11. **Additional Information**
 1. Regulation limits for effluent provided in document below (2)
 2. Status report on water pollution control in the Canadian metal mining industry (1986)
 3. Gold and silver mines are not regulated
 4. Publications available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3

Municipal and Industrial Strategy for Abatement - Iron and Steel Industry Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on pollutants in liquid effluent from the iron and steel industry in Ontario.
- 2b. **Purpose of the Database** To collect information on pollutants in liquid effluent for the iron and steel industry in order to determine priority pollutants and establish limitation regulations.
- 3a. **Name and Address of Responsible Organization** Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Kin Mah (819) 997-2271 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)** Liquid effluent parameters (not all are available for each mill) include:
 - solids (dissolved, suspended)
 - nitrogen compounds (nitrates, nitrites)
 - cyanide
 - phosphorus
 - trace metals
 - heavy metals
- 4b. **Geographic Coverage** Ontario.
- 4c. **Data Acquisition Method(s)** Pre-regulation field sampling surveys conducted in 1987-88 by the Ontario MISA Program, and surveys conducted in 1979-80.
- 4d. **Geographic Unit(s) of Measurement** Mills.
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** COMPAQ 286 with LOTUS 1-2-3.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Mill authorization required for data release.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** No reports or periodic publications.
8. **Languages** The database contains only numbers.
9. **User Aids Available** None.
10. **Keywords** Effluents; Industry; Liquid wastes; Metallurgical industry; Mining; Ontario; Pollutants; Wastes; Water.
11. **Additional Information** This database is relatively new. It will be expanded as more data become available. Its primary function now is to determine which contaminants should be measured, critical regulatory limits, and at what stage in processing levels should be measured.

Municipal Water Use Survey

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on water intake, water use and wastewater treatment from periodic surveys of nationally distributed municipalities over 1,000 population. Data on pumpage and use by category (residential, commercial, industrial, institution).
- 2b. **Purpose of the Database** To collect basic water use data for municipalities over 1,000 population for research and applied studies.
- 3a. **Name and Address of Responsible Organization** Economics and Conservation Branch, Ecosystem Sciences and Evaluation Directorate, Environment Canada, 9th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Lacelle (819) 953-1519 FAX: (819) 997-8701
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - annual pumpage
 - use by category (residential, commercial, institutional, industrial, other)
 - population
 - waste treatment (primary, secondary, tertiary)
 - water source (surface, ground, combined)
- 4b. **Geographic Coverage** National, covering 1,300 municipalities, all provinces and territories represented.
- 4c. **Data Acquisition Method(s)** Questionnaires and telephone interviews.
- 4d. **Geographic Unit(s) of Measurement** Individual municipalities over 1,000 population.
- 4e. **Period of Record** 1983, 1986.
- 4f. **Update Frequency** Every 5 years as of 1986.
- 4g. **Database Hardware/Software Configuration** Microcomputer; data stored on floppy disk in LOTUS format; mainframe computer used for tabulating results.
- 4h. **Output Format(s) (tables, maps, etc.)** Detailed tables available.
5. **Restrictions and Conditions** None; searches should be conducted by the responsible organisation.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Municipal Water Use in Canada, 1983.*
8. **Languages** Reports available in English and French.
9. **User Aids Available** None.
10. **Keywords** Drinking water; Effluents; Groundwater; Liquid effluents; Municipalities; Wastes; Wastewater treatment; Water; Water use.
11. **Additional Information**
 1. Publication listed in 7 is available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.
 2. This database will become a major component of the NAQUADAT database when operational.

Municipal Waterworks and Wastewater System Data (MUNDAT)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national inventory of municipal waterworks and wastewater system. Data from approximately 3,600 municipalities, 1,540 wastewater treatment plants, and 2,900 water treatment plants.
- 2b. **Purpose of the Database** To maintain data on drinking water treatment and wastewater treatment facilities.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Robert Christensen (819) 953-1113 FAX: (819) 997-3068
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - municipality (name, population)
 - watershed
 - population served
 - flow (average m³/day, design m³)
 - treatment plant names
 - water supply and treatment
 - water source (surface, ground)
 - storage (m³)
 - treatment type (filtration, chlorine, sedimentation, coagulation)
 - wastewater treatment and disposal
 - sewer system (sanitary, combined, separate)
 - treatment level (primary, secondary, lagoons, septic tank)
 - treatment type (facultative, aerated, bar screen, primary clarification etc.)
- 4b. **Geographic Coverage** National, approximately 3,600 municipalities, 1,540 wastewater treatment plants, plus 2,900 water treatment plants.
- 4c. **Data Acquisition Method(s)** Questionnaire.
- 4d. **Geographic Unit(s) of Measurement** Municipalities.
- 4e. **Period of Record** 1974 - present.
- 4f. **Update Frequency** Most of the data is updated every 3 or 4 years, with partial updates yearly.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *National Inventory of Municipal Waterworks and Wastewater Systems in Canada*; available approximately every 2 to 4 years; most recent report to 1986.
8. **Languages** Reports and database are bilingual.
9. **User Aids Available** None.
10. **Keywords** Drinking water; Effluents; Liquid effluents; Municipalities; Wastes; Wastewater treatment; Water; Water use.
11. **Additional Information** The publication in 7 is available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

National Air Pollution Surveillance Network (NAPS)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data from a Canadian network of stations continuously monitoring common air contaminants
- 2b. **Purpose of the Database** To identify national trends in levels of specific air pollutants, to monitor compliance with national objectives established in the Canadian Environmental Protection Act.
- 3a. **Name and Address of Responsible Organization** Pollution Measurement Division, River Road Environmental Technology Centre, Environmental Protection, Conservation and Protection, Environment Canada, 3439 River Road, Ottawa, Ontario, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Shelton (613) 991-9453 FAX (613) 998-0004
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - sulphur dioxide (SO₂)
 - carbon monoxide (CO)
 - ozone (O₃)
 - nitrogen dioxide (NO₂)
 - total suspended particulate matter
 - inhalable particulate matter
 - lead (Pb)
 - nitrates
 - sulphates
- 4b. **Geographic Coverage** National, approximately 140 monitoring stations in 55 Canadian cities, all provinces and territories are represented
- 4c. **Data Acquisition Method(s)** Individual monitoring stations
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements
- 4e. **Period of Record** 1974 - present
- 4f. **Update Frequency** Monthly
- 4g. **Database Hardware/Software Configuration** Mainframe computer using custom software; data stored on magnetic tape
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers
5. **Restrictions and Conditions** No confidentiality or access restrictions. Searches should be conducted for users by personnel of the Pollution Measurement Division
6. **Price Information** No charges for reasonably-sized requests
7. **Corresponding Printed Sources** Three reports are published. *National Air Pollution Surveillance* - Monthly summary, *National Air Pollution Surveillance* - Annual summary, Special reports as required
8. **Languages** Reports are available in English and French. The database itself contains only numbers
9. **User Aids Available** None
10. **Keywords** Air pollution; Air quality; Environmental monitoring; Monitoring; Pollutants, Pollution, Urban areas
11. **Additional Information**
 1. The NAPS database resides at the Atmospheric Environment Service Computing Centre at Downsview, Ontario
 2. Data on all parameters are not necessarily available in all provinces and territories
 3. Publications listed in 7 are available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3

National Analysis of Trends in Emergencies System (NATES)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Inventory of accidents involving spills of hazardous materials (including hydrocarbons) in Canada and offshore to the 320 km limit. Data are provided on the cause of the accident, industry sector concerned, site type, material spilled, consequences, etc.
- 2b. **Purpose of the Database** To analyze accident trends and distribution of hazardous material spills and to assess contingency plans, equipment requirements, prevention programs and regulation effectiveness.
- 3a. **Name and Address of Responsible Organization** Environmental Emergencies, Conservation and Protection, Environment Canada, 15th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gilles Cloutier (819) 953-6674 FAX: (819) 953-5361
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)** Examples listed below:
 - material spilled, amount
 - reporting agency
 - location (geographic area, latitude, longitude)
 - site type (air, underground, river, bay, harbour etc.)
 - cause (collision, sinking, leak etc.)
 - reason (intent, error, ice etc.)
 - source (tanker, train, aircraft etc.)
 - sector (petroleum, pulp and paper, metallurgy etc.)
 - cleanup (who, % recovery)
 - acts involved (none, arctic waters, municipal bylaw etc.)
 - consequences (fish kill, human casualty etc.)
- 4b. **Geographic Coverage** National, all provinces, territories, and offshore to the 320 km limit.
- 4c. **Data Acquisition Method(s)** Data reported to regional offices directly from the incident sites or obtained from provincial agencies.
- 4d. **Geographic Unit(s) of Measurement** Individual spills referenced by latitude and longitude
- 4e. **Period of Record** 1968 - present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** Digital, ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** Lists of incidences by constraints (defined parameters). Tables of incident numbers by type and geographic area.
5. **Restrictions and Conditions** Some information may be restricted.
6. **Price Information** Cost recovery for organizations outside government. No charge within government (all levels).
7. **Corresponding Printed Sources** Ten year summary report: *Summary of Spill Events in Canada, 1974-1983*.
8. **Languages** Reports and database are bilingual.
9. **User Aids Available** None.
10. **Keywords** Accidents; Hazardous materials; Oil spills; Spills.
11. **Additional Information**
 1. Database is being expanded to add more parameters.
 2. Publications available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.
 3. This database contains information for significant spills. Information pertaining to other spills is held in each regional office of Environmental Protection.

National Archive (CLIMATE)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data from a Canadian network of stations continuously monitoring meteorological parameters.
- 2b. **Purpose of the Database** To identify national and regional climates of Canada.
- 3a. **Name and Address of Responsible Organization** Canadian Climate Centre, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Mike Webb (416) 739-4335 FAX: (416) 739-4446
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - daily and monthly climate
 - evaporation
 - ice freeze-up/break-up, ice thickness
 - hourly weather observations
 - ozone
 - radiation
 - rate of precipitation
 - satellite
 - snow course
 - soil temperatures
 - sunshine
 - upper air
 - station information system
 - marine weather observations
- 4b. **Geographic Coverage** National and adjacent waters.
- 4c. **Data Acquisition Method(s)** Individual monitoring stations (approximately 30% of stations are on the real time communication network).
- 4d. **Geographic Unit(s) of Measurement** Varies - depending on parameter measured.
- 4e. **Period of Record** 1840 - present
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Mainframe computer using custom software. Data are stored on magnetic cartridge.
- 4h. **Output Format(s) (tables, maps, etc.)** Statistical tabulations, maps, charts, magnetic tapes, floppy discs.
5. **Restrictions and Conditions** No restrictions, requests for data should be directed to the Canadian Climate Centre.
6. **Price Information** Price schedule applies.
7. **Corresponding Printed Sources** Canadian Climate Normals; Climatological Station Catalogue; Principal Station Data; Computer Tabulations - fiche/paper; Monthly Record and Monthly Radiation (fiche); Monthly and Annual Meteorological Summaries
8. **Languages** Reports are available in English and French. The database contains numbers and station names, etc.
9. **User Aids Available** Documentation for the Digital Archive of Canadian Climatological Data (Surface). Format Documentation for the Digital Archive of Upper Air. Handbook on Climate Data Sources of the Atmospheric Environment Service.
10. **Keywords** Climate; Climate change; Precipitation; Snow; Temperature; Weather.
11. **Additional Information**
 1. The National Climate Archive/Database resides on a computer in the Central Services Directorate.
 2. The monitoring sites are generally more closely spaced in the southern (more populated) parts of Canada.

National Atmospheric Chemistry (NATCHEM)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Air and precipitation chemistry data from all Canadian networks including CAPMON. Data are from all provinces and territories, except the Yukon Territory. U.S. annual summary data are supplied from the U.S. database Atmospheric Deposition System (ADS).
- 2b **Purpose of the Database** To provide Canada with the data archive system to combine air and precipitation chemistry data from federal and provincial networks in order to maximize the usefulness of the data.
- 3a **Name and Address of Responsible Organization** Air Quality Measurement and Analysis Research Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
- precipitation
 - hydrogen (H⁺), sulfate (SO₄⁻), nitrate (NO₃⁻), chlorine (Cl⁻)
 - sodium (Na⁺), potassium (K⁺), calcium (Ca⁺⁺), magnesium (Mg⁺⁺), ammonium (NH₄⁺)
 - air
 - sulphur dioxide (SO₂), nitric acid (HNO₃), sulphate (SO₄⁻), nitrate (NO₃⁻), chlorine (Cl⁻)
 - ammonium (NH₄⁺), sodium (Na⁺), potassium (K⁺)
- 4b **Geographic Coverage** National - all provinces and territories except Yukon
- 4c **Data Acquisition Method(s)**
- Precipitation
 - wet-only collectors
 - daily, weekly, monthly sampling
 - Air
 - air filter packs
 - 3 stage
 - nylon, teflon, cellulose
- 4d **Geographic Unit(s) of Measurement** Site specific, some watersheds
- 4e **Period of Record** 1978 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Mainframe/PC, SAS, DBASE IV
- 4h **Output Format(s) (tables, maps, etc.)** Tables, deposition maps
- 5 **Restrictions and Conditions** Access only through responsible organization
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** NATCHEM Annual Report
- 8 **Languages** English (and French eventually).
- 9 **User Aids Available** None.
- 10 **Keywords** Acid precipitation; Air quality; Atmospheric chemistry; Monitoring; Precipitation
- 11 **Additional Information**
1. Data is supplied from provincial and federal networks.
 2. U.S. annual summary data is supplied from ADS*
 3. Data will ultimately be supplied to ADS*
- * U.S. Atmospheric Deposition System (Database)

National Harvest Survey - Game Birds

- 1 **Datafile Name(s)** National Harvest Survey, Species Composition Survey
- 2a **Summary Description of Contents** Information on annual hunter activity and migratory game bird kill. Data are shared with the provinces and territories and the U.S. Fish and Wildlife Service
- 2b **Purpose of the Database** To determine harvest limits for the following year, and population trends for migratory game birds in Canada
- 3a **Name and Address of Responsible Organization** National Wildlife Research Centre Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Ellen Hayakawa (819) 953-1425 FAX (819) 953-6612
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
- federal migratory game bird hunting permit sales
 - federal migratory game bird kill (species, age, sex)
 - hunter activity (number of recreation days, seasonal and daily bag)
- 4b **Geographic Coverage** National, including all provinces and territories
- 4c **Data Acquisition Method(s)** Hunter questionnaires and wing collections
- 4d **Geographic Unit(s) of Measurement** Data stored by 10 minute degree blocks summarized by province and regional reporting zones
- 4e **Period of Record** 1967 - present
- 4f **Update Frequency** Annually, June 1
- 4g **Database Hardware/Software Configuration** IBM (DEC) 386 microcomputer and mainframe computer with custom software, data stored on magnetic tape
- 4h **Output Format(s) (tables, maps, etc.)** Tables
- 5 **Restrictions and Conditions** Permit holder names are confidential
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** Annual CWS Progress Notes entitled, "Migratory Game Birds Harvested in Canada During the Hunting Season" (see 11)
- 8 **Languages** Reports are bilingual
- 9 **User Aids Available** *Migratory Game Bird Hunters and Hunting in Canada* CWS Report Series No. 43, 1978
- 10 **Keywords** Biota; Birds; Game birds; Hunting; Migratory birds; Wildlife
- 11 **Additional Information**
1. Data are shared with the provinces and territories and the U.S. Fish and Wildlife Service, who may also produce publications
 2. Publications in 7 and 9 are available from the responsible organization

National Registry of Toxic Chemical Residues (NRTCRC)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A national database on toxic chemical levels in bird, mammal, reptile and amphibian specimens collected in the field.
- 2b **Purpose of the Database** To provide data on toxic chemicals in wildlife for use in determining contaminant effects and assessing trends in contaminant levels.
- 3a **Name and Address of Responsible Organization** National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bryan Wakeford (819) 997-1412 FAX: (819) 953-6612
- 3c **Access Mechanisms** Through Head, Laboratory Services, via a National Registry of Toxic Chemical Residues Data Request Form available from the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - wildlife characteristics
 - species (bird, mammal, reptile, amphibian) age, sex, breeding condition
 - collection data (where, when, how, by whom) specimen analysis methods (where, when, tissue)
 - analysis results, common tissue parameters (% fat, % water), contaminant levels (e.g. dioxin, organochlorine pesticides, PCBs, mercury, trace elements)
 - sample storage (where, when, how many)
- 4b **Geographic Coverage** National, including all provinces and territories; some specimens from the U.S. and Central and South America.
- 4c **Data Acquisition Method(s)** Laboratory analysis of specimens collected in the field.
- 4d **Geographic Unit(s) of Measurement** Specimen specific measurements.
- 4e **Period of Record** 1963 - present.
- 4f **Update Frequency** Continuous.
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE software.
- 4h **Output Format(s) (tables, maps, etc.)** Five formats will be available that provide different data (see 9).
- 5 **Restrictions and Conditions** Data will be released unless they are pending publication by the original submitter; written permission from the latter is required for data release. Other conditions concerning data use are given in guide 1 (9).
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** One summary report produced (11). Toxic chemical residues catalogue series (5 regional volumes) - list of data organized by species, tissue, year, province and number of analyses for each chemical.
- 8 **Languages** Report in English; future reports will be available in French as well.
- 9 **User Aids Available** *A Guide to the Canadian Wildlife Service National Registry of Toxic Chemical Residues*. Technical Report Series, No. 27, CWS. 1987. *A Guide to the Canadian Wildlife Service National Specimen Bank* is in preparation.
- 10 **Keywords** Biota; Biotic contamination; Contaminants; Pesticides; Pollutant levels; Residues; Toxics; Wildlife.
- 11 **Additional Information**
 1. Summary report: Noble, D.G. (1990). *Contaminants in Seabirds*. EN1-11/90-2E, Environment Canada, Ottawa.
 2. Publications listed in 7 and 9 can be obtained from the responsible organization.
 3. The first guide in 9 summarizes the data available in the database (up to 1984) by species, chemical, geographical area, date and publication.
 4. The database contains data on all species in the specimen bank, both those on which analyses have been performed and those that have not been analysed.

National Water Quality Database (NAQUADAT)

- 1 **Datafile Name(s)** One file for each of five regions in Canada (see 11).
- 2a **Summary Description of Contents** Results of field and laboratory analysis from 10,000 locations across Canada including rivers, lakes, groundwater and precipitation. Over 1,500 different analytical codes are used in the database.
- 2b **Purpose of the Database** To provide a national repository for water quality data collected in Canada, including five databases corresponding to the Directorate's five regions: Atlantic, Quebec, Ontario, Western and Northern and Pacific and Yukon.
- 3a **Name and Address of Responsible Organization** Ecosystems Sciences and Evaluation, Environment Canada, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Brooksbank (819) 997-3424 FAX: (819) 953-0461
- 3c **Access Mechanisms** Data currently available on disk or magnetic tape through the responsible organization or via remote access through DATAPAC.
- 4a **Variables Included (summarized if extensive)** Over 1 600 measured, but not at all sites, for example:
 - aquatic organisms
 - fish (contaminants in tissue)
 - algae (growth, presence)
 - sediments (nutrients, trace metals, DDT, 2,4-D, BOD, pH)
 - bacteria (fecal coliform, fecal strep)
 - chemical properties (trace metals, total phosphorus, pH, oxygen concentration)
 - physical properties (depth, water table, discharge, light penetration)
 - precipitation (pH, type)
- 4b **Geographic Coverage** National, approximately 10,000 locations covering all provinces and territories.
- 4c **Data Acquisition Method(s)** Monitoring stations, field surveys.
- 4d **Geographic Unit(s) of Measurement** Site specific measurements referenced by latitude and longitude.
- 4e **Period of Record** 1960 - present.
- 4f **Update Frequency** Updated as new information is received (frequency of input varies from region to region).
- 4g **Database Hardware/Software Configuration** Mainframe VAX 6410, VMS ORACLE, DATAPAC; data stored on magnetic tape.
- 4h **Output Format(s) (tables, maps, etc.)** Graphs, tables.
- 5 **Restrictions and Conditions** Some of the data used in relation to the Canadian Environmental Protection Act may be restricted.
- 6 **Price Information** See 11.
- 7 **Corresponding Printed Sources** Data reports are no longer produced; numerous other publications prepared (see 11).
- 8 **Languages** Publications produced are bilingual; language used in relation to databases is optional and there is a bilingual dictionary on the system.
- 9 **User Aids Available** NAQUADAT dictionary of parameter codes, 1988. Other guides currently available will soon be obsolete (see 11); new ones are in preparation and will be available when the user signs on the system.
- 10 **Keywords** Aquatic ecosystems; Environmental monitoring; Metals; Monitoring; Nutrients; Organic pollutants; Pesticides; Sediments; Water; Water pollution; Water quality.
- 11 **Additional Information**
 1. Many site specific water quality data reports and the list of parameter codes are available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.
 2. Many data are also available from regional sources, i.e. regional offices of Environment Canada. It is however recommended that initial contact concerning water quality data matters be with the NAQUADAT database manager in Hull, Quebec

Neckbanding of Arctic Geese

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Counts and locations for neck-banded Arctic geese from the U.S.S.R. to Mexico during fall and spring migration and on the breeding grounds.
- 2b. **Purpose of the Database** To provide information on migration patterns and population dynamics for use in species management.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Richard Kerbes (306) 975-4087 FAX: (306) 975-4089
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (Ross' geese, snow geese, white-fronted geese, small Canada geese)
 - code on neck band
 - observation on flock size and composition
 - date, time, province/state
 - observer code
 - latitude, longitude
- 4b. **Geographic Coverage** From Wrangel Island (U.S.S.R.), Alaska, western North America to Mexico.
- 4c. **Data Acquisition Method(s)** Field observations from a network of observers as well as casual observations are sent to CWS.
- 4d. **Geographic Unit(s) of Measurement** Observations referenced by latitude and longitude to the nearest minute.
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** UNIX minicomputer with AWK
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** One or two progress reports are published annually
8. **Languages** The database is in English; the reports are bilingual
9. **User Aids Available** None.
10. **Keywords** Arctic; Bird banding; Birds; Geese; Migratory birds.
11. **Additional Information** Complementary databases provide breeding population size information for snow and Ross' geese based on inventories by air photography and origin information for neckbanded geese.

Non-ferrous (Base Metal) Smelters Database

1. **Datafile Name(s)** One for each of 10 smelters
- 2a. **Summary Description of Contents** A database covering all Canadian non-ferrous, base-metal smelters including processing equipment, air emissions, pollution control methods and production.
- 2b. **Purpose of the Database** To monitor the Canadian non-ferrous, base-metal smelting industry with respect to sulphur dioxide and trace element emissions.
- 3a. **Name and Address of Responsible Organization** Mining, Mineral and Metallurgical Process Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, Ottawa, Ontario, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr John MacLatchy (819) 953-1605 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - processes used (roasting, smelting, converting)
 - emission parameters
 - sulphur dioxide (SO₂)
 - particulates
 - heavy metals, (nickel, copper, lead, zinc, cadmium, mercury, chromium, arsenic)
 - smelter location (city)
 - metal production on annual basis
 - by-products (sulphuric acid, liquid sulphur dioxide)
 - air pollution control equipment (scrubbers, electrostatic precipitators)
- 4b. **Geographic Coverage** All 10 Canadian non-ferrous, base-metal smelters
- 4c. **Data Acquisition Method(s)** Variable data (no federal regulations) provided by companies to regional offices, headquarters or provinces
- 4d. **Geographic Unit(s) of Measurement** Individual smelters
- 4e. **Period of Record** 1970 - present
- 4f. **Update Frequency** Irregular, usually annually
- 4g. **Database Hardware/Software Configuration** Paper file
- 4h. **Output Format(s) (tables, maps, etc.)** Tables and text
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** Database is in English
9. **User Aids Available** None
10. **Keywords** Air emissions; Air pollution; Emissions; Industry, Metallurgical industry, Metals, Mining; Smelters; Sulphur dioxide
11. **Additional Information** The database will be put on a microcomputer in the future

Northern Dredging Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Details on materials, sites, and methods for dumping and dredging in the Beaufort Sea.
- 2b **Purpose of the Database** To archive information on dredging and dumping in the Beaufort Sea.
- 3a **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Pacific and Northern Region, Environment Canada, Box 370, Yellowknife, Northwest Territories, X1A 2N3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. André D'Entremont (403) 873-3456 FAX: (403) 873-8185
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - dates (start, finish of operation)
 - purposes of dredging/dumping
 - company, dredge name and type, contact
 - sediment type (sand, gravel, silt)
 - load/dump volume total
 - load site/dump site (latitude, longitude, name, depth)
 - dump method (off barge, cutter, suction dredge, pump)
 - island created (name, type, status of year end)
- 4b **Geographic Coverage** Offshore Beaufort Sea, Northwest Territories.
- 4c **Data Acquisition Method(s)** Data supplied by industry.
- 4d **Geographic Unit(s) of Measurement** Individual dumping/dredging sites referenced by latitude and longitude.
- 4e **Period of Record** 1959 - 1986.
- 4f **Update Frequency** Not updated beyond 1986.
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE III software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, published report (see 7).
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge for reasonably-sized requests.
- 7 **Corresponding Printed Sources** One report has been produced. Sackman, T., J.W. McDonald, T. Browver and L. Turney (1986). *Database Compilation of Dredging Activity in the Canadian Beaufort Sea, a Supplementary Report*. EP, Western and Northern Region 86/87 - CP (EP) - 14.
- 8 **Languages** Report is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Arctic; Dredging; Ocean dumping; Waste disposal.
- 11 **Additional Information**
 1. This database contains similar information to that in the Ocean Dumping Permit System (ODUMP) database.
 2. This database has no editing capability. New information will likely be entered in the Ocean Dumping Data System database of Environment Canada.

Northern Land Use

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A series of maps providing information on natural resources and related human activities for Canada north of 60° latitude
- 2b **Purpose of the Database** To be used as a planning and management tool for Canada north of 60° latitude.
- 3a **Name and Address of Responsible Organization** Canada Map Office, 130 Bentley Street, Nepean, Ontario, K1A 0E9.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Andrews (613) 952-7000 FAX: (613) 957-8861
- 3c **Access Mechanisms** Through the contact person.
- 4a **Variables Included (summarized if extensive)** Numerous topics including:
 - wildlife
 - major groups (seabirds, polar bears, waterfowl, caribou, arctic fox, marine mammals)
 - hazards (disturbance)
 - habitat (boundaries, activity, seasonal use)
 - fish
 - species (arctic char, lake trout, stickleback)
 - habitat (spawning, migration areas)
 - fishery (domestic, commercial)
 - hunting and trapping (species harvested, area covered)
 - ecodistricts (topography, soils, geology, water, vegetation, wildlife)
 - coastal type (beaches, cliffs, plains, glaciers, hills, riverine)
 - areas of interest (wildlife sanctuaries, IBP sites, Natural Areas/Sites of Canadian significance, sports fishing camps)
- 4b **Geographic Coverage** Canada north of 60° latitude, excluding Ellesmere Island, and Quebec.
- 4c **Data Acquisition Method(s)** From existing maps and studies, additional field surveys and personal communications.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** Data were collected between 1971-1986.
- 4f **Update Frequency** Unlikely to be updated.
- 4g **Database Hardware/Software Configuration** The maps are supported by paper files.
- 4h **Output Format(s) (tables, maps, etc.)** Approximately 400 maps.
- 5 **Restrictions and Conditions** None
- 6 **Price Information** Map cost is approximately \$4 each.
- 7 **Corresponding Printed Sources** Some of the information used to generate the maps is also published in reports (see 11).
- 8 **Languages** English
- 9 **User Aids Available** Pamphlet describing the database.
- 10 **Keywords** Arctic; Land; Land use; Northwest Territories; Wildlife; Yukon.
- 11 **Additional Information**
 1. The database consists of maps with legends providing great detail on the features mapped. The back of each map provides a bibliography for the area covered.
 2. Maps, (Northern Land Use Information Series) reports and the user aids are available from the responsible organization or the Canada Map Office, 130 Bentley Avenue, Nepean, Ontario
 3. The map series is incomplete - coverage for Quebec and Ellesmere Island is not available.
 4. From this database, the Northern Perspective map series is derived which provides information at a scale of 1:5,000,000 on selected topics covered by the database (e.g. caribou, development and resource potential).
 5. Fisheries reports for all sections, a wildlife report for one section and a land use report for one section have been prepared

Northern Ontario Waterfowl Database

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Waterfowl population density, species occurrence and habitat preference information.
- 2b **Purpose of the Database** To monitor waterfowl populations and to determine range and habitat requirements.
- 3a **Name and Address of Responsible Organization** Canadian Wildlife Service, Ontario Region, Conservation and Protection, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ken Ross (613) 952-2415 FAX: (613) 952-9027
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - species
 - sex
 - density
 - wetland habitat type
- 4b **Geographic Coverage** All of Ontario north of the French and Mattawa rivers.
- 4c **Data Acquisition Method(s)** Plots surveyed by helicopter
- 4d **Geographic Unit(s) of Measurement** Wetland specific within 2x2 kilometre plots, referenced by UTM coordinates.
- 4e **Period of Record** 1980 - present.
- 4f **Update Frequency** Yearly.
- 4g **Database Hardware/Software Configuration** PC based using DBASE, SAS and SPANS software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables and maps (SPANS format).
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No cost.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** English.
- 9 **User Aids Available** None.
- 10 **Keywords** Biota; Birds; GIS; Habitats; Ontario; Waterfowl; Wildlife.
- 11 **Additional Information** None.

Nuclear Data System (NUDAT)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A registry of contaminants in effluents associated with uranium mining/milling operations in Ontario
- 2b **Purpose of the Database** To assess compliance with discharge limits, identify trends in the accumulation of environmental pollutants and to evaluate annual loadings
- 3a **Name and Address of Responsible Organization** Oil, Gas, and Energy Division Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Pat Vasudev (819) 953-1127 FAX: (819) 994-7762
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - radionuclides (uranium, radium - 226)
 - non-radionuclides (nitrates, sulphates, heavy metals)
 - pH
 - alkalinity
 - total dissolved solids
- 4b **Geographic Coverage** Ontario.
- 4c **Data Acquisition Method(s)** Monitoring data supplied by mining companies
- 4d **Geographic Unit(s) of Measurement** Site specific measurements
- 4e **Period of Record** Data from 1980 - 1986 have been entered in the database, data after this period to the present are available but will not be entered
- 4f **Update Frequency** Formerly annually; no longer updated
- 4g **Database Hardware/Software Configuration** Mainframe computer with SYSTEM 2000 database management
- 4h **Output Format(s) (tables, maps, etc.)** Tables
- 5 **Restrictions and Conditions** None
- 6 **Price Information** Undetermined
- 7 **Corresponding Printed Sources** A summary report is being planned
- 8 **Languages** Tables contain numbers only
- 9 **User Aids Available** None
- 10 **Keywords** Effluents; Industry; Mining; Nuclear energy; Ontario; Pollutants; Radioactivity; Rivers; Uranium; Water quality
- 11 **Additional Information** Due to the fact that the DBMS (System 2000 at Energy, Mines and Resources) is no longer being supported, and due to the inability to obtain data from the uranium mining companies, this database has been rendered inactive. A hard copy is available

**Ocean Dumping Database System
Pacific and Yukon Region**

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data from applications and permits for ocean dumping, including load and dumpsite monitoring and aquaculture information.
- 2b. **Purpose of the Database** To regulate ocean dumping and loading for the purpose of ocean dumping, to monitor compliance with the ocean dumping provisions of the Canadian Environmental Protection Act (CEPA) and to control aquaculture operations.
- 3a. **Name and Address of Responsible Organization** Waste Management, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. J. Karau (819) 953-1699 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - ocean dumping/loading
 - permit details (number, permittee)
 - * dump site (location, date)
 - * load site (location, date)
 - * material dumped
 - * trace metals in material
 - * organics in material
 - * enforcement activities
 - aquaculture
 - * lease details
 - * effluent site
 - * species cultured
 - monitoring samples (date)
- 4b. **Geographic Coverage** Waters within Canadian jurisdiction under the ocean dumping control provisions of the Canadian Environmental Protection Act (CEPA).
- 4c. **Data Acquisition Method(s)** Individual permit applications.
- 4d. **Geographic Unit(s) of Measurement** Site specific details.
- 4e. **Period of Record** 1989 - present.
- 4f. **Update Frequency** As required.
- 4g. **Database Hardware/Software Configuration** Microcomputer, ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Keeping the Oceans Clean* (1986-87). CEPA Report (1988-90).
8. **Languages** Annual reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Aquaculture; British Columbia; Contaminants; Dumping permits; Marine; Ocean dumping; Oceans; Pacific; Pollution control; Waste disposal; Wastes.
11. **Additional Information**
 1. This database is currently being evaluated with a view to replacing the Ocean Dumping Permit System (ODUMP) in Ottawa with a version of this database. It will contain information on aquaculture leases across Canada.
 2. All ocean dumping permits are published in the Canada Gazette.

**Ocean Dumping Permit System
(ODUMP)**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Applications and permits for ocean dumping including load and dump site monitoring for Canada.
- 2b. **Purpose of the Database** To regulate ocean dumping and loading for the purpose of ocean dumping, and to monitor compliance with the ocean dumping provisions of the Canadian Environmental Protection Act (CEPA), Part IV.
- 3a. **Name and Address of Responsible Organization** Waste Management, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Linda Porebaki (819) 997-2046 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization. Data available on-line with remote access.
- 4a. **Variables Included (summarized if extensive)**
 - permit type
 - loading details, dump sites, route to site
 - dumping method, rate, quantity of material
 - type of material dumped
 - monitoring requirements and restrictions
- 4b. **Geographic Coverage** Waters within Canadian jurisdiction under the ocean dumping control provisions of CEPA.
- 4c. **Data Acquisition Method(s)** Individual permit applications.
- 4d. **Geographic Unit(s) of Measurement** Site specific details.
- 4e. **Period of Record** 1975 - 1989.
- 4f. **Update Frequency** No longer updated.
- 4g. **Database Hardware/Software Configuration** Mainframe computer with SYSTEM 2000. Database management using COBOL and FORTRAN
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Ocean Dumping Control Act annual reports produced (see 11).
8. **Languages** Annual reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Contaminants; Dumping permits; Marine; Ocean dumping; Oceans; Waste disposal; Wastes.
11. **Additional Information**
 1. The database is located at the Department of Energy, Mines and Resources, Ottawa.
 2. Plans are underway to replace ODUMP files with a national computer database (see Ocean Dumping Database System Pacific and Yukon Region). Data gathered after 1989 are being held in regional offices until the new database is operational.
 3. All permits are published in the Canada Gazette.
 4. Most recent annual report: *Keeping the Ocean Clean*, 1986/87 Annual report; available from the responsible organization.

Ontario Forest Bird Monitoring Program

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Bird species and abundance for each major forest type throughout Ontario.
- 2b. **Purpose of the Database** To identify trends in forest bird populations and to identify critical habitats.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Dan Welsh (613) 952-2405 FAX: (613) 952-9027
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - bird species and abundance;
 - tree species, density and vegetative cover.
- 4b. **Geographic Coverage** Ontario.
- 4c. **Data Acquisition Method(s)** Point count bird survey method (volunteers and staff of CWS).
- 4d. **Geographic Unit(s) of Measurement** Forest stand.
- 4e. **Period of Record** 1987 to present.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** PC based; SAS, ORACLE
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** No restrictions.
6. **Price Information** Depends on the request.
7. **Corresponding Printed Sources** Technical and scientific reports in progress.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Biota; Birds; Forests; Habitats; Ontario; Wildlife
11. **Additional Information** None.

Ozone Depleting Substances: Trade and Use

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information that industry is compelled to provide concerning the trade and use of ozone depleting substances. It covers chlorofluorocarbons, hydrofluorocarbons, 1,1,1-trichloroethane (methyl chloroform) carbon tetrachloride and halons
- 2b. **Purpose of the Database** To support implementation and compliance activities relating to the Montreal Protocol on Substances that Deplete the Ozone Layer
- 3a. **Name and Address of Responsible Organization** Commercial Chemicals Branch, Conservation and Protection, Environment Canada, 14th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr Yves Bovet (819) 953-1668 FAX: (819) 953-7155
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - company (contacts, addresses)
 - name of substance
 - production, import and export of substances
 - quantities used for various applications
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Company questionnaires forwarded annually
- 4d. **Geographic Unit(s) of Measurement** Individual companies
- 4e. **Period of Record** 1971 - present for CFCs and HCFCs, 1986 - present for halons, 1989 - present for methyl chloroform and carbon tetrachloride
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with ORACLE (in planning stage)
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Most of the information is protected from disclosure under the Canadian Environmental Protection Act
6. **Price Information** No charge for reasonably-sized requests
7. **Corresponding Printed Sources** Annual reports are prepared for halons and chlorofluorocarbons
8. **Languages** The reports are bilingual
9. **User Aids Available** None
10. **Keywords** CFCs; Chlorofluorocarbons; Halons, HCFCs; Hydrochlorofluorocarbons, Ozone, Ozone depleting substances, Ozone layer
11. **Additional Information**
 1. Summary reports are available to the public
 2. New substances are being added to the database (e.g. 1,1,1-trichloroethane (methyl chloroform))

Park Use Related Data System (PURDS)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on use of national historic sites and historic canals as well as information on park and site users.
- 2b. **Purpose of the Database** To provide data for the use of socio-economic concepts during the analysis of decisions pertaining to national parks and historic sites.
- 3a. **Name and Address of Responsible Organization** Socio-economic Branch, Canadian Parks Service, Environment Canada, 241 Cité des Jeunes Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J. Beaman (819) 997-6305 FAX: (819) 953-4908
- 3c. **Access Mechanisms** Through contact with Systems Management Analyst, Socio-economic Information Division (819) 994-1979.
- 4a. **Variables Included (summarized if extensive)**
 - entries
 - visits
 - visit-days/visit-hours
 - party-nights
 - person-nights
 - vehicles
 - persons
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** Traffic counters; Camping permits; Observation; Pedestrian counters.
- 4d. **Geographic Unit(s) of Measurement** National Parks; National Historic Sites; Historic canals.
- 4e. **Period of Record** 1983 - present.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** DOTS, HYPERQUEST, IBM PC compatible, ORACLE, SAS, ZIM.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables and graphs.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Canadian Parks Service Monthly Report. Canadian Parks Service: Overview and Statistics on Visitor Participation 1987 - 1988. Information from the Public Use Database 1987 - 1988.*
8. **Languages** English/French.
9. **User Aids Available** User Guide Manual (requires updating).
10. **Keywords** Historic sites; Land; Land use; Parks.
11. **Additional Information** None.

Pesticide Registrant Survey

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Sales data for selected pesticides broken down by active ingredient, province and use pattern for Canada, excluding the territories. Includes information on herbicides, insecticides, fungicides, fumigants, and preservatives.
- 2b. **Purpose of the Database** To provide, to federal personnel who deal with the evaluation or assessment of pesticides, information concerning the quantities of selected pesticides sold in Canada.
- 3a. **Name and Address of Responsible Organization** Chemicals Control Division, Commercial Chemicals Branch, Environmental Protection, Conservation and Protection, Environment Canada, 14th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Tedd Brien (819) 953-1669 FAX: (819) 953-7155
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - volume of pesticide (kg/l)
 - active ingredient (kg)
 - company selling product
 - product registration number
 - market type (domestic, commercial, restricted products)
 - use pattern (where, on what, what is to be controlled)
 - form of product (solution, solid, emulsion)
 - pesticide type (herbicides, insecticides, fungicides, fumigants, preservatives)
- 4b. **Geographic Coverage** National, excluding the territories.
- 4c. **Data Acquisition Method(s)** Survey forms from companies; data collected confidentially under the Pest Control Products Regulations and the Canadian Environmental Protection Act.
- 4d. **Geographic Unit(s) of Measurement** Provinces (kg/active ingredient sold)
- 4e. **Period of Record** 1981 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** COMPAQ 286 with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Except for the annual, general two page summary, the remainder of the data are confidential.
6. **Price Information** There is no charge for the annual summary.
7. **Corresponding Printed Sources** A confidential annual report with restricted access (those with a purpose under the Canadian Environmental Protection Act) is produced (see 11).
8. **Languages** The annual report and the summary is in English.
9. **User Aids Available** None.
10. **Keywords** Agriculture; Contaminants; Forestry; Pest management; Pesticide registration; Pesticides; Pests.
11. **Additional Information**
 1. Database access is restricted to those who have a requirement under the Canadian Environmental Protection Act.
 2. Only data after 1985 are computerized. Detail of use pattern is highly variable.
 3. The annual two page summary provides total sales data by province and national summaries for number of products sold for five general categories of pesticides. It also lists by name the herbicides, insecticides and fungicides that account for 80% of the total sales in these categories.

Piping Plover Nesting Sites

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on piping plover populations in Atlantic Canada.
- 2b. **Purpose of the Database** To maintain data on the population of piping plovers in Atlantic Canada.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, Sackville, New Brunswick, E0A 3C0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bruce Johnson (506) 536-3025 FAX: (506) 536-3028
- 3c. **Access Mechanisms** Through the responsible organization or contact person.
- 4a. **Variables Included (summarized if extensive)**
 - number and location of breeding pairs
 - number of eggs per nest
- 4b. **Geographic Coverage** Atlantic Provinces - coastal beach and dune systems.
- 4c. **Data Acquisition Method(s)** On-site inspections during the nesting season (June-July).
- 4d. **Geographic Unit(s) of Measurement** Bird-nesting sites.
- 4e. **Period of Record** 1975 to the present.
- 4f. **Update Frequency** Surveys in National Parks are annual. Surveys elsewhere are opportunistic.
- 4g. **Database Hardware/Software Configuration** Hard copy.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables of numbers and maps.
5. **Restrictions and Conditions** Some restriction may apply to prevent disturbances to birds.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Les Oiseaux Menacés du Québec*. Environnement Canada, CWS 1989.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Atlantic Canada; Birds; Piping plover; Wildlife.
11. **Additional Information**
 1. The piping plover is an endangered species in the Atlantic Region. While information is generally available to the public, some discretion is used to protect breeding birds
 2. Data are also used to evaluate the usefulness of protective measures

Pollution Incident Report Records Collection

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Pollution incident reports and other information on significant spills and environmental emergencies in Canada and Canadian offshore waters. These reports are usually filed within 24 hours of incident occurrence and therefore preliminary in their assessment.
- 2b. **Purpose of the Database** To record information on significant spills and other environmental emergencies.
- 3a. **Name and Address of Responsible Organization** National Environmental Emergency Centre, Conservation and Protection, Environment Canada, 15th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Mazerolle (819) 997-3742 FAX: (819) 953-5361
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)** The report is a verbal account of the incident, typically providing the following information
 - material spilled
 - reporting agency
 - location
 - site type (e.g. air, underground, river, bay)
 - cause (e.g. collision, sinking, leak)
 - reason (e.g. intent, error, ice)
 - source (e.g. tanker, train, aircraft)
 - sector (e.g. petroleum, pulp and paper, metallurgy)
 - environmental impact
 - cleanup undertaken
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Incident reports are forwarded to Ottawa by all reporting agencies usually within 24 hours of incident occurrence
- 4d. **Geographic Unit(s) of Measurement** Individual spills referenced by province, place name and date.
- 4e. **Period of Record** 1973 - present
- 4f. **Update Frequency** As incidents occur
- 4g. **Database Hardware/Software Configuration** Paper file
- 4h. **Output Format(s) (tables, maps, etc.)** Text
5. **Restrictions and Conditions** Contact responsible organization
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** Database in English and French
9. **User Aids Available** None
10. **Keywords** Environmental accidents; Marine; Oil, Pollution, Spills, Transportation
11. **Additional Information**
 1. This database provides verbal accounts of significant spills within 24 hours of occurrence. The National Analysis of Trends in Emergencies System database consists of coded variables, and may provide more accurate information resulting from subsequent incident investigations
 2. Each regional office sends pollution incident reports to Ottawa only for significant spills and retains information on other spills
 3. Periodic summary reports are available from regional offices (e.g. *A Summary of Trends Relating to Spills of Oil and Hazardous Materials in the Atlantic Region*)

Prairie Habitat Monitoring Project

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Descriptive and area data for individual habitat polygons interpreted from aerial photographs of sample quarter sections of land in the three Prairie Provinces of Canada.
- 2b **Purpose of the Database** To provide baseline habitat monitoring information to the North American Waterfowl Management Plan
- 3a **Name and Address of Responsible Organization** Prairie and Northern Wildlife Centre, Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Tim Coleman, Canadian Wildlife Service, Room 210, 4999 98th Avenue, Edmonton, Alberta, T6B 2X3. (403) 468-8939 FAX: (403) 495-2615
- 3c **Access Mechanisms** Through the contact person.
- 4a **Variables Included (summarized if extensive)**
 - site location (province, quarter section, ecoregion, physiographic units)
 - transect and quarter number
 - land cover, land activity (mapped)
 - wetlands (number, extent, fringe and margin vegetation cover type, impacts)
- 4b **Geographic Coverage** Prairie Provinces.
- 4c **Data Acquisition Method(s)** Aerial photograph interpretation with ground truthing.
- 4d **Geographic Unit(s) of Measurement** Quarter sections (160 acres); 152 transects each containing 24 sections.
- 4e **Period of Record** 1985.
- 4f **Update Frequency** No immediate plans for resurveying transects.
- 4g **Database Hardware/Software Configuration** Mainframe computer with custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** See contact person.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Three reports have been prepared:
 1. *Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No. 1 Methods and Project Status - Prairie Habitat Monitoring Project.* (1987)
 2. *Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No. 2 Saskatchewan Parkland Part 1.* (1988)
 3. *Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No. 3 Saskatchewan Parkland Part 2.* (1989)
- 8 **Languages** The database and reports are in English.
- 9 **User Aids Available** See first report in 7.
- 10 **Keywords** Alberta; Birds; GIS; Habitats; Manitoba; Saskatchewan; Waterfowl; Wetlands; Wildlife
- 11 **Additional Information** There are plans to prepare reports for additional prairie ecoregions (grassland, parkland, boreal transition forest) for each of the provinces.

Precipitation Chemistry (EP - Atlantic Region)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Precipitation chemistry data (catch, pH, major ions) for Atlantic Canada from 1979 - 1990
- 2b **Purpose of the Database** To determine the chemistry of precipitation in Atlantic Canada and monitor acid rain characteristics.
- 3a **Name and Address of Responsible Organization** Environmental Protection, Atlantic Region, Environment Canada, 15th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. William Moores (902) 426-2004 FAX: (902) 426-3574
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - catch in mm
 - pH
 - chemical excess sulphate, nitrate, chloride, sodium, calcium, magnesium, potassium, ammonium
- 4b **Geographic Coverage** Atlantic Canada.
- 4c **Data Acquisition Method(s)** Precipitation samples collected during every event in some cases to every two weeks at other stations using a Sangamo sampler.
- 4d **Geographic Unit(s) of Measurement** Monitoring stations (maximum 10 sampled at any one time).
- 4e **Period of Record** 1979 - 1990.
- 4f **Update Frequency** No longer updated.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with LOTUS and custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** The database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Acid precipitation; Atlantic Canada; New Brunswick; Newfoundland; Nova Scotia; Precipitation; Prince Edward Island.
- 11 **Additional Information** Data quality control varies within the dataset.

Precipitation Chemistry of South Coast British Columbia (SCBC)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Event sampling of precipitation chemistry and analysis for major ions. Some trace metal analysis was also performed.
- 2b. **Purpose of the Database** To monitor precipitation chemistry in the lower mainland, southern areas of Vancouver Island and the Gulf Islands.
- 3a. **Name and Address of Responsible Organization** Scientific Services Division, Pacific Region, Atmospheric Environment Service, Environment Canada, No. 700, 1200 West 73rd Avenue, Vancouver, British Columbia, V6P 6H9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. B. Thomson (604) 664-9122 FAX: (604) 664-9195
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - acidity
 - trace metals
 - nitrate
 - sodium
 - magnesium
 - sulphate
 - chloride
 - potassium
 - calcium
 - ammonia
- 4b. **Geographic Coverage** South coast of British Columbia.
- 4c. **Data Acquisition Method(s)** Individual monitoring stations.
- 4d. **Geographic Unit(s) of Measurement** Site specific measurements
- 4e. **Period of Record** 1983 - 1986. Specific range varies among sites.
- 4f. **Update Frequency** Formerly irregularly; no longer updated.
- 4g. **Database Hardware/Software Configuration** Mainframe computer
- 4h. **Output Format(s) (tables, maps, etc.)** Data in tabular form on magnetic tape or diskette
5. **Restrictions and Conditions** No restrictions.
6. **Price Information** Cost recovery policy.
7. **Corresponding Printed Sources** None.
8. **Languages** English.
9. **User Aids Available** Information through responsible agency.
10. **Keywords** Acid precipitation; British Columbia; Marine; Monitoring; Pacific; Precipitation
11. **Additional Information**
 1. Data is of short duration concentrating on episode or event analysis
 2. The project that supported this database was completed in 1986, thus the database is no longer updated.

Public Opinion on the Environment

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Results of national surveys of public opinion on environmental issues such as acid rain, atmospheric change, citizen involvement, environment and economy, environmental health, waste management, water, forests, environmental disasters, etc
- 2b. **Purpose of the Database** To obtain a knowledge of public opinion on the environment for use in strategic planning
- 3a. **Name and Address of Responsible Organization** Policy and Planning Branch, Education and Communications, Corporate Policy Group, Environment Canada, 27th Floor, 10 Wellington Street, Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Louise Morgan (819) 953-9742 FAX: (819) 953-6789
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - public opinion on:
 - environmental issues (e.g. toxic chemicals contamination, acid rain, water quality, waste management)
 - relative significance of environmental issues
 - relative significance of environmental versus other issues
 - performance of federal/provincial governments in relation to the environment
 - responsibility for environmental protection
 - willingness to pay for environmental protection, changes in purchasing decisions
 - personal efficacy in contributing to the resolution of environmental problems
 - respondent characteristics (age, sex, education, language, income, occupation, location)
- 4b. **Geographic Coverage** National, all provinces and territories
- 4c. **Data Acquisition Method(s)** Opinion surveys are conducted by telephone or in-house interviews
- 4d. **Geographic Unit(s) of Measurement** Opinion statistics summarized nationally or regionally
- 4e. **Period of Record** 1970 - present
- 4f. **Update Frequency** Quarterly reports are produced by private firms
- 4g. **Database Hardware/Software Configuration** Hardcopy - reports of survey results
- 4h. **Output Format(s) (tables, maps, etc.)** Tables and text
5. **Restrictions and Conditions** The availability of information in private reports is limited by copyright agreement; the report produced by the responsible organization is available only within the federal government
6. **Price Information** No charge for the report prepared by the responsible organization. Contact the appropriate private firm for subscription costs
7. **Corresponding Printed Sources** *Public Opinion and the Environment, 1988* Publications of private firms (see 11)
8. **Languages** All reports are in English. French summaries are available from the private firms for their reports
9. **User Aids Available** Brochures on the publications are available from the private report producers
10. **Keywords** Public opinion
11. **Additional Information**
 1. This database is composed of reports describing public opinion surveys carried out by four private firms: Decima Research, Envirionics, International Environmental Monitor and Angus Reid and Associates
 2. Plans are to put the database on a computer eventually
 3. The results of the polls are on computers at the firms who conduct them

Pulp and Paper Industry Data Management System

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on regulated effluents/emissions from the pulp and paper industry (and industry profiles).
- 2b. **Purpose of the Database** Production of annual compliance reports. Serves information requests.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Guy Coulombe (514) 283-2337 FAX: (514) 283-4423
- 3c. **Access Mechanisms** Through the organization responsible.
- 4a. **Variables Included (summarized if extensive)**
 - suspended materials
 - BOD5
 - biotoxicity (trout)
- 4b. **Geographic Coverage** Quebec (approximately 50 industrial sites).
- 4c. **Data Acquisition Method(s)** Data are provided by the companies.
- 4d. **Geographic Unit(s) of Measurement** Data are reported by industrial site location.
- 4e. **Period of Record** 1984 to date.
- 4f. **Update Frequency** Each year.
- 4g. **Database Hardware/Software Configuration** Microcomputer (software developed in KNOWLEGEMAN).
- 4h. **Output format(s) (tables, maps, etc.)** Tables; Text.
5. **Restrictions and Conditions** Data are accessible through the Access to Information Law.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Annual report (internal publication with limited distribution).
8. **Languages** Report available in French.
9. **User Aids Available** None.
10. **Keywords** Effluents; Emissions; Industry; Pulp and paper; Quebec; Regulation; Water quality.
11. **Additional Information** None.

Pulp and Paper Mill Profile System

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database that provides information on pulp and paper mill production, effluents and targets.
- 2b. **Purpose of the Database** To indicate the degree of compliance of the pulp and paper industry with established effluent regulations.
- 3a. **Name and Address of Responsible Organization** Renewable Resources Extraction and Processing Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. E. Trevor Ruthman (819) 953-1129 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - mill location
 - production
 - materials produced (pulp, paper)
 - rate (tonnes/day)
 - process (thermal, mechanical pulp, kraft, sulphite)
 - effluent characteristics
 - flow rate (m³/tonne)
 - total suspended solids (TSS)
 - biochemical oxygen demand (BOD)
 - acute toxicity to fish
 - type of waste treatment
- 4b. **Geographic Coverage** National, 125 direct discharge mills.
- 4c. **Data Acquisition Method(s)** Company submitted data.
- 4d. **Unit(s) of Measurement** Individual pulp and paper mills.
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Annual and as necessary.
- 4g. **Database Hardware/Software Configuration** Microcomputer currently with LOTUS 1-2-3, being converted to DBASE.
- 4h. **Output Format(s) (tables, maps, etc.)** Text and tables; advanced report and query ability.
5. **Restrictions and Conditions** Searches must be conducted by the responsible organization.
6. **Price Information** No charges for reasonably sized requests.
7. **Corresponding Printed Sources** Annual profile and pollution status reports are planned (see 11).
8. **Languages** Reports available in French and English. Database available only in English.
9. **User Aids Available** None.
10. **Keywords** Effluents; Industry; Liquid wastes; Pollutants; Pulp and paper; Waste treatment; Wastes; Water; Water pollution.
11. **Additional Information**
 1. This database is under modification.
 2. Periodic publications listed in 7 will be available from the responsible organization when the system is fully developed.
 3. One publication has been produced for the industry: *Status Report on Abatement of Water Pollution from the Canadian Pulp and Paper Industry* (1982).
 4. The above report is available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

Quality of Sediments in the St. Lawrence River

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data from physio-chemical studies of sediments and studies of sediment grain characteristics.
- 2b. **Purpose of the Database** Monitoring of sediment quality in the St. Lawrence River and the Saguenay River; Reference.
- 3a. **Name and Address of Responsible Organization** St. Lawrence Centre, Environmental Technologies Development Directorate, Conservation and Protection, Environment Canada, Suite 400, 105 McGill Road, Montreal, Quebec, H2Y 2E7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mrs. Lucie Olivier (514) 496-2272. FAX: (514) 283-9451
- 3c. **Access Mechanisms** Through the organization responsible.
- 4a. **Variables Included (summarized if extensive)**
 - grain size
 - metals
 - organic compounds
 - pesticides
- 4b. **Geographic Coverage** St. Lawrence River and the Saguenay River.
- 4c. **Data Acquisition Method(s)** Research.
- 4d. **Geographic Unit(s) of Measurement** Point data.
- 4e. **Period of Record** Since 1977.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** PC compatible microcomputer, FOXBASE III software.
- 4h. **Output format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Not all information in the base is available at present.
6. **Price Information** None.
7. **Corresponding Printed Sources** None.
8. **Languages** French.
9. **User Aids Available** Users guide.
10. **Keywords** Metals; Organic pollutants; Pesticides; Quebec; Sediments; St. Lawrence River; Water quality.
11. **Additional Information** None.

Quebec Atlas of Breeding Birds

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Maps of the distribution of birds breeding in Quebec from 1984 to 1989 is based on field data
- 2b. **Purpose of the Database** To produce accurate and up-to-date maps of the distribution of breeding birds in Quebec to establish baseline conditions against which future observations can be compared and trends assessed
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Quebec Region, Environment Canada, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Quebec, G1V 4H5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. J. Gauthier (418) 648-7225 FAX: (418) 649-6475
Mr. Yves Aubry (418) 648-7225 FAX: (418) 649-6475
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - bird species
 - nesting (possible, probable, confirmed)
 - location
 - date
 - other variables recorded
- 4b. **Geographic Coverage** Southern Quebec.
- 4c. **Data Acquisition Method(s)** Field data were collected by CWS staff and a region-wide network of volunteers over a six year period
- 4d. **Geographic Unit(s) of Measurement** Breeding records are mapped on a 10 X 10 km grid covering the region
- 4e. **Period of Record** 1984 - 1989
- 4f. **Update Frequency** No immediate update is planned
- 4g. **Database Hardware/Software Configuration** IBM compatible and DIGITAL computers with ASCII file, VAX-VMS with ORACLE software
- 4h. **Output Format(s) (tables, maps, etc.)** Maps
5. **Restrictions and Conditions** None
6. **Price Information** Charge to cost/recovery
7. **Corresponding Printed Sources** A book with distribution maps and accompanying text is in preparation
8. **Languages** The database is in French
9. **User Aids Available** Set of instructions under preparation
10. **Keywords** Biota, Birds; Quebec, Wildlife
11. **Additional Information** None

Quebec Seabird Registry

- 1 **Datafile Name(s)** BIOM (Banque Informatisé des Oiseaux Marins).
- 2a **Summary Description of Contents** Colony size, location and information sources for 16 species of seabirds that breed in the St. Lawrence system: sector between Montreal and Quebec, estuary of the St. Lawrence River, Gulf of St. Lawrence (North Shore, Gaspé Peninsula, Anticosti Island and Magdalen Island).
- 2b. **Purpose of the Database** To monitor population status of seabirds breeding in the St. Lawrence system.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Conservation and Protection, Quebec Region, Environment Canada, 8th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Quebec, G1V 4H5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gilles Chapdelaine (418) 649-6127 FAX: (418) 649-6475
Mr. Pierre Brousseau (418) 649-6129 FAX: (418) 649-6475
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (16, larids, alcids, cormorants, gannets, terns, Eider ducks)
 - number of pairs/individuals
 - colony name
 - inventory method
 - location, date
 - location of survey information
 - existence of additional information
- 4b. **Geographic Coverage** The St. Lawrence system: sector between Montreal and Quebec, estuary of the St. Lawrence River, Gulf of St. Lawrence (North Shore, Gaspé Peninsula, Anticosti Island and Magdalen Island), Quebec north shore of the St. Lawrence River.
- 4c. **Data Acquisition Method(s)** Field surveys are conducted tentatively every five years and other wildlife organizations with experience in biological surveys may contribute to the databank.
- 4d. **Geographic Unit(s) of Measurement** Individual colonies by latitude and longitude.
- 4e. **Period of Record** 1925 - present.
- 4f. **Update Frequency** Every 5 years.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE IV.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Contact responsible organization.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Survey results published in the *Canadian Field-Naturalist*. Other papers cover individual species.
8. **Languages** Database is in French.
9. **User Aids Available** None.
10. **Keywords** Birds; Quebec; Seabirds; St. Lawrence River; Wildlife.
11. **Additional Information**
 1. Plans for creating a national database on seabirds that would include observations for all regions are being discussed.
 2. Data on seabird populations along the Hudson Bay and Ungava Bay coasts are also available, but they are in a paper file and not included in this database.

Register of Underground Storage Tanks and Systems on Federal Property (RUST)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on characteristics of underground tanks (including contents) on federal property.
- 2b. **Purpose of the Database** To describe underground storage tanks on federal property for effective management (maintenance, inspection, upgrading).
- 3a. **Name and Address of Responsible Organization** Federal Activities Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Brian Melbourne (819) 953-1697 FAX: (819) 994-7782
Mr. Kelly Karr, Oil Gas and Energy Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, Ottawa, Ontario, K1A 0H3 (819) 953-1125.
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - type of facility, ownership
 - location, site sensitivity
 - tank characteristics
 - capacity, contents, volume
 - year of installation
 - construction material
 - internal and external protection
 - piping, pumping system
 - leak record, monitoring program
- 4b. **Geographic Coverage** National, all federal property.
- 4c. **Data Acquisition Method(s)** Questionnaire/registration forms.
- 4d. **Geographic Unit(s) of Measurement** Individual tanks.
- 4e. **Period of Record** December 1987 - present.
- 4f. **Update Frequency** Regular schedule to be determined.
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III + software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** An annual report is planned.
8. **Languages** The report will be available in English and French.
9. **User Aids Available** Register of underground storage tank systems on federal property software package user's guide, 1988 (under review).
10. **Keywords** Contamination; Federal properties; Leaks; Oil spills; Storage tanks; Spills; Underground storage.
11. **Additional Information**
 1. The annual report and the report in 9 are available from the responsible organization.
 2. The database is composed of separate databases held and maintained by each federal department with underground storage tanks. All have the same software configuration. The majority of tanks are on property of the departments of Transport, National Defence, and Public Works.

Residual Discharge Inventory System (RDIS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database of emission estimates for common pollutants from anthropogenic sources based on plant permit data (provincial), transportation and fuel consumption data (Statistics Canada), production data, actual stack monitoring and published emission rates.
- 2b. **Purpose of the Database** To monitor emission rates of air contaminants for atmospheric modelling and policy making.
- 3a. **Name and Address of Responsible Organization** Pollution Data Analysis Division, Environmental Protection, Conservation and Protection, Environment Canada, 18th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Marc Deslauriers (819) 994-3069 FAX: (819) 953-9542
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - sulphur dioxide
 - nitrogen oxides
 - carbon monoxide
 - total hydrocarbons
 - particulate matter
 - reactive volatile organic compounds
 - ammonia
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Data are calculated based on plant permit data (provincial), transportation and fuel consumption data from Statistics Canada, production data from other sources, actual stack monitoring, and published emission rates.
- 4d. **Geographic Unit(s) of Measurement** 127 x 127 km grids for area type sources and latitude and longitude for point source emissions.
- 4e. **Period of Record** 1985 - present.
- 4f. **Update Frequency** Every four or five years.
- 4g. **Database Hardware/Software Configuration** MICROVAX 3100 with DBASE IV and RAMIS data management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables available; maps may be produced in the future.
5. **Restrictions and Conditions** Some plant specific data may be restricted
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Emissions and Trends of Common Air Contaminants in Canada*, 1980, 1985.
8. **Languages** Reports are bilingual.
9. **User Aids Available** None.
10. **Keywords** Air pollution; Emissions; Industry; Motor vehicles; Pollutants; Pollution
11. **Additional Information**
 1. This database provides the raw data that are summarized in the Environmental Protection database Compendium (COMP)
 2. In the future greenhouse gases and toxics will be included.

Restricted Information System for Chemicals
Ontario Region PCB Inventory

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An inventory of PCB containing equipment in-use or in storage in companies in Ontario.
- 2b. **Purpose of the Database** To support enforcement of PCB regulations and the PCB phaseout strategy.
- 3a. **Name and Address of Responsible Organization** Commercial Chemicals Section, Environmental Protection, Conservation and Protection, Ontario Region, Environment Canada, 7th Floor, 25 St. Clair Avenue East, Toronto, Ontario, M4T 1M2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Mark Vanderlaan (416) 973-1080 FAX: (416) 973-6985
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - company (name, address, phone number, industrial sector, contact, Ontario Ministry of Environment region)
 - type of equipment (transformer, capacitor, etc.)
 - PCB type (askarel, pyranol, inerteen, etc.) and amount
 - location of PCBs within company
 - use (in use, in storage)
- 4b. **Geographic Coverage** Ontario
- 4c. **Data Acquisition Method(s)** Information from companies provided pursuant to legislation on the Canadian Environmental Protection Act obtained through inspections and voluntary submissions
- 4d. **Geographic Unit(s) of Measurement** Individual companies
- 4e. **Period of Record** 1979 - present
- 4f. **Update Frequency** Irregular
- 4g. **Database Hardware/Software Configuration** COMPAQ 386 SX with DBASE III + software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Contact organization responsible for release of data - some may be protected
6. **Price Information** No charge
7. **Corresponding Printed Sources** Summary data from Ontario are published as part of an annual national report (see 11)
8. **Languages** National reports are bilingual; database is in English
9. **User Aids Available** None
10. **Keywords** Contaminants; Hazardous materials; Ontario; PCBs; Pollution control, Polychlorinated biphenyls, Storage, Wastes, Waste inventory
11. **Additional Information**
 1. The database is slated for redevelopment when it will become part of the national PCB database currently under development (see Canadian Council of Ministers of the Environment PCB Inventory)
 2. Reports are available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3

**Restricted Information System for Chemicals
Quebec Region PCB Inventory (RISC - QRPCB)**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An inventory of PCB containing equipment in use or in storage by companies in Quebec.
- 2b. **Purpose of the Database** To support enforcement of PCB regulations and the PCB phaseout strategy.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Quebec Region, Conservation and Protection, Environment Canada, 1179 de Bleury Street, 2nd Floor, Montreal, Quebec, H3B 3H9.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bruno Lafortune (514) 283-2347 FAX: (514) 283-4423
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - company (code, location, industrial sector)
 - type of equipment (transformer, capacitor, etc.)
 - PCB type (askarel, pyranol, inerteen) and amount
 - location of PCBs within company
 - use (in use, in storage)
- 4b. **Geographic Coverage** Quebec.
- 4c. **Data Acquisition Method(s)** Information from companies provided pursuant to legislation on the Canadian Environmental Protection Act obtained through inspections and voluntary submissions.
- 4d. **Geographic Unit(s) of Measurement** Individual companies.
- 4e. **Period of Record** 1980 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** HP minicomputer with IMAGE 1000 and RTE - IVB (will be changing) operating system software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Contact agency responsible for release of data - possibly protected.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Summary data from Quebec were published as part of two national summaries (see 11) in 1985, 1986. There are no plans for additional publications.
8. **Languages** National reports are bilingual; database is in French.
9. **User Aids Available** None.
10. **Keywords** Contaminants; Hazardous materials; PCBs; Pollution control; Polychlorinated biphenyls; Quebec; Storage.
11. **Additional Information**
 1. This database is slated for redevelopment. It will be on a microcomputer, probably with DBASE IV software and maintained in the regional office. Updates will periodically be sent to headquarters in Ottawa. As well it will form part of a national PCB database currently under development (see Canadian Council of Resource and Environment Ministers - National PCB Inventory Database).
 2. Most recent annual report: *National Inventory of Concentrated PCB (Askarel) Fluids (1985 Summary Update)* 1986.
 3. Reports are available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, Place Vincent Massey, Ottawa, Ontario K1A 0H3.

Seabird Colony Catalogue

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An island by island record of populations of colonial seabirds along the west coast of British Columbia.
- 2b. **Purpose of the Database** To provide baseline data on western colonial seabirds for planning purposes.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, Environment Canada, Box 340, Delta, British Columbia, V4K 3Y3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gary Kaiser (604) 946-8546 FAX: (604) 946-7022
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - seabird species (rhinoceros auklet, Cassin's auklet, ancient murrelet, tufted puffin, double-crested and pelagic cormorants, Leach's storm-petrel, fork-tailed storm-petrel, glaucous-winged gull)
 - number of nests
 - habitat (ground cover, island size)
 - colony location, landing areas, potential campsites on islands
- 4b. **Geographic Coverage** More than 100 islands along the coast of British Columbia.
- 4c. **Data Acquisition Method(s)** Field surveys of islands.
- 4d. **Geographic Unit(s) of Measurement** Individual islands.
- 4e. **Period of Record** Data collected 1980-1988.
- 4f. **Update Frequency** Irregular for portions of the coast; no update for the entire area is planned.
- 4g. **Database Hardware/Software Configuration** Microcomputer using WORDSTAR.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** No periodic reports based on the database are planned. Seven technical reports are planned, two of which have been prepared (see 11).
8. **Languages** English publications with French abstracts.
9. **User Aids Available** None.
10. **Keywords** Biota; Bird colonies; Birds; British Columbia; Pacific; Seabirds; Wildlife.
11. **Additional Information**
 1. Reports produced:
Rodway, M., M. Lemon and G. Kaiser (1988). *British Columbia Seabird Colony Inventory*, Report 1, East Coast Moresby Island. CWS Technical Publication No. 5.
Rodway, M. (1988). *British Columbia Seabird Colony Inventory, Census of Glaucous-winged Gulls, Pelagic Cormorants, Black Oyster-catchers and Pigeon Guillemots in the Queen Charlotte Islands, 1986*. CWS Technical Report No. 43.
 2. Reports are available from the responsible agency.

Sediment Database Records

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Database contains physical, metal and organic data for sediment of nearshore zones in the Beaufort Sea.
- 2b. **Purpose of the Database** To monitor the effects of the oil and gas industry on the nearshore marine environment and provide information for environmental assessments
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Western and Northern Region, Environment Canada, Box 370, Yellowknife, Northwest Territories, X1A 2N3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. André d'Entremont (403) 873-3456 FAX: (403) 873-8185
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - trace metals (mercury, lead, cadmium, zinc, arsenic, iron, nickel)
 - total organic carbon
 - sediment particle size
 - hydrocarbons (n-alkanes, 16 polycyclic aromatic hydrocarbons)
- 4b. **Geographic Coverage** Tuktoyaktuk Harbour, Hutchison Bay, McKinley Bay, and Southern Beaufort Sea in the Northwest Territories.
- 4c. **Data Acquisition Method(s)** Field surveys using bottom grab and core sampling
- 4d. **Geographic Unit(s) of Measurement** Individual sampling stations recorded by latitude and longitude.
- 4e. **Period of Record** 1975 - present.
- 4f. **Update Frequency** No updates planned.
- 4g. **Database Hardware/Software Configuration** Microcomputer with TURBOPASCAL and DBASE III software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, DBASE III files
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources**
 1. Can Test Ltd. (1985). *Chemical Analysis of Samples Collected for Beaufort Sea Nearshore Monitoring Program, 1984*. Report prepared for EPS, NWT District Office
 2. Yunker, M.B. (1986). *Final Report: 1982-1983 Beaufort Sea Shorebase Monitoring Program: Statistical Analysis and Recommendations for Future Programs*. Report prepared for Indian and Northern Affairs Canada, Water Resources Division, Yellowknife, N.W.T.
8. **Languages** English.
9. **User Aids Available** None
10. **Keywords** Arctic; Dredging; Environmental assessment; Marine; Ocean dumping; Sediments; Water pollution.
11. **Additional Information** None.

SHELLDAT, GASPDAT, QUIKMAP

1. **Datafile Name(s)** Numerous files
- 2a. **Summary Description of Contents** Shellfish growing water bacterial quality survey results, pollution sources and descriptions (text)
- 2b. **Purpose of the Database** To monitor bacteriological quality of shellfish growing waters in B.C., to protect human health, and to identify pollution sources to shellfish growing areas
- 3a. **Name and Address of Responsible Organization** Shellfish and Aquaculture, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Hal Nelson (604) 666-2736 FAX (604) 666-6858
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - most probable number (MPN) of fecal coliforms/100 ml at each station
 - ancillary data (rainfall, freshwater input and sources, pollution sources, etc.)
 - salinity
 - temperature, dissolved oxygen and turbidity
- 4b. **Geographic Coverage** All commercial mollusc and shellfish harvest areas on the west coast of Canada and some other areas
- 4c. **Data Acquisition Method(s)** Field surveys
- 4d. **Geographic Unit(s) of Measurement** Latitude and longitude
- 4e. **Period of Record** 1971 - present
- 4f. **Update Frequency** Updated continuously
- 4g. **Database Hardware/Software Configuration** COMPAQ, DATAPOINT computer, TOSHIBA, custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Hardcopy reports, text and tables, various report formats, ASCII files
5. **Restrictions and Conditions** Some restrictions may apply depending on nature of the request
6. **Price Information** No charge for data, a cost will apply when digital maps become available
7. **Corresponding Printed Sources** Contaminated Area Reports for some surveys in recent years, file reports
8. **Languages** English
9. **User Aids Available** Not applicable
10. **Keywords** British Columbia, Lead, Marine, Microbiology, Molluscs, Monitoring, Pacific Pollution, Water quality
11. **Additional Information** None

Snow and Ice (GLACIERS)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Information on Canada's approximately 100,000 glaciers in the form of an internationally standardized data set, maps, photographs, text and bibliographies.
- 2b. **Purpose of the Database** To provide information about Canada's glaciers and to document, for one period of time, the state of Canada's frozen water resources.
- 3a. **Name and Address of Responsible Organization** National Hydrology Research Institute, Environment Canada, 11 Innovation Blvd., Saskatoon, Saskatchewan, S7N 3H5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. C. Simon L. Ommanney (306) 975-5751 FAX: (306) 975-5143
- 3c. **Access Mechanisms** Through the responsible organization. Database is only partly machine readable and is not on-line.
- 4a. **Variables Measured (summarized if extensive)**
 - region and basin identification
 - glacier name, number and UTM coordinates
 - orientation, length and width
 - elevations - highest, lowest, snow line
 - date of snow line
 - mean elevations - accumulation and ablation areas
 - surface areas - total exposed, ablation
 - accumulation area ratio
 - mean (estimated) depth, volume (estimated)
 - classification and description
 - area by 100m elevation bands
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Map and airphoto interpretation, literature searches, donation.
- 4d. **Geographic Unit(s) of Measurement** Geographical and UTM coordinates.
- 4e. **Period of Record** Time series. Basic data set derived from aerial photographs taken from 1950-1962. General information extends back to start of glacier records in mid-1880's.
- 4f. **Update Frequency** Not applicable.
- 4g. **Database Hardware/Software Configuration** Machine readable files in WORDSTAR and LOTUS run on IBM-AT. Hard copy maps, photos, paper, files, etc.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, lists, reports, maps.
5. **Restrictions and Conditions** None.
6. **Price Information** Small requests handled at no charge. Larger requests may involve some cost recovery if staff have to be hired to process request.
7. **Corresponding Printed Sources** Comprehensive printed sources of data mass balance and glacier fluctuations data available from World Glacier Monitoring Service, Zurich, Switzerland.
8. **Languages** English. References may be multilingual.
9. **User Aids Available** Glacier Inventory Note series.
10. **Keywords** Alberta; Arctic; British Columbia; Glaciers; Ice; Labrador; Physiography; Snow; Yukon.
11. **Additional Information** The database is a miscellaneous collection of many types and sources of glacier and snow and ice information. The critical link is the contact person who can make all the necessary connections. Long-term plans call for the reduction of most of the database to a machine readable form to be accessible, probably on-line, through the National Hydrology Research Institute library.

Spring Breeding Waterfowl Survey - Eastern Canada

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Population data for waterfowl from eastern Canada, Maine, Michigan and Ohio.
- 2b. **Purpose of the Database** To monitor waterfowl populations and evaluate trends in Eastern Canada.
- 3a. **Name and Address of Responsible Organization** Migratory Birds and Wildlife Conservation Branch, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - waterfowl species
 - bird sex
 - number of birds
- 4b. **Geographic Coverage** Atlantic Provinces, Ontario, Quebec, Maine, Michigan, Ohio.
- 4c. **Data Acquisition Method(s)** Aerial and possibly ground surveys of fixed blocks randomly distributed across the region.
- 4d. **Geographic Unit(s) of Measurement** 10 x 10 km or 5 x 5 km blocks.
- 4e. **Period of Record** 1990 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM compatible with DBASE IV.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Contact responsible organization.
6. **Price Information** To be established.
7. **Corresponding Printed Sources** Annual reports on the status of waterfowl in eastern Canada
8. **Languages** Database is in English and French.
9. **User Aids Available** To be established.
10. **Keywords** Biota; Birds; New Brunswick; Newfoundland; Nova Scotia; Ontario; Prince Edward Island; Quebec; United States; Waterfowl; Wildlife.
11. **Additional Information** None.

St. Lawrence River Industrial Discharge Management System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Profile of 50 industrial establishments identified in the St. Lawrence Action Plan; data on the quality of industrial effluents, maps of information on the ambient environment.
- 2b. **Purpose of the Database** To follow the reduction of toxic industrial discharges as part of the St. Lawrence Action Plan.
- 3a. **Name and Address of Responsible Organization** Conservation and Protection, Environment Canada, Room 2881, 5199 Sherbrooke East, Montreal, Quebec, H1T 3X3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gaétan Duscheneau (514) 873-9480 FAX: (514) 873-4133
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - metals
 - organic compounds
 - water withdrawals
 - pollutant loads
 - physical and chemical data
 - biology
 - organic growth substances
 - non-volatile organic substances (bases)
 - non-volatile organic substances (other)
- 4b. **Geographic Coverage** St. Lawrence River.
- 4c. **Data Acquisition Method(s)** Sampling.
- 4d. **Geographic Unit(s) of Measurement** Point data
- 4e. **Period of Record** Since 1988
- 4f. **Update Frequency** Each year.
- 4g. **Database Hardware/Software Configuration** Microcomputer (PC), software includes INGRAPH, FOXBASE and AUTOCAD
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, lists, diagrams, tables (GIS)
5. **Restrictions and Conditions** Certain industrial profiling data are confidential (production statistics).
6. **Price Information** None.
7. **Corresponding Printed Sources** None.
8. **Languages** French.
9. **User Aids Available** Users guide.
10. **Keywords** Effluents; Industry; Metals; Organic pollutants; Quebec; St. Lawrence River, Water; Water quality.
11. **Additional Information** None.

Sulphur Content in Liquid Fuels

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database providing information on the content of sulphur in liquid fuels (gasoline, Heavy fuel oil, jet fuel, diesel, furnace/stove oil) produced in or imported to Canada
- 2b. **Purpose of the Database** To collect information on sulphur content of liquid fuels in order to estimate emissions from fuel consumption
- 3a. **Name and Address of Responsible Organization** Oil, Gas and Energy Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bernard Madé (819) 953-1135 FAX: (819) 994-7762
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - sulphur concentration (mg/l, annual weighted average)
 - fuel (gasoline, heavy fuel oil, jet fuel, diesel, furnace/stove oil)
 - amount of fuel produced/imported
 - producer/importer
- 4b. **Geographic Coverage** National, all provinces and territories
- 4c. **Data Acquisition Method(s)** Reported annually by fuel producers or importers under the Fuel Information Regulations (CEPA)
- 4d. **Geographic Unit(s) of Measurement** Individual producers/importers
- 4e. **Period of Record** 1978 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE IV software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** The amount of fuel produced/imported is confidential
6. **Price Information** No charge
7. **Corresponding Printed Sources** A report summarizing 1978 - 1987 data is available Annual reports have been prepared for 1988, 1989, 1990
8. **Languages** Reports are in English
9. **User Aids Available** None
10. **Keywords** Contaminants; Fuel; Oil; Sulphur
11. **Additional Information** The reports in 7 are available upon request from the responsible agency

Surface Water Temperatures of the Great Lakes

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Grid point temperature data and analysed isothermal maps of temperature fields for the Great Lakes. Grid point surface water temperature data are abstracted from the surface water temperature maps using consistent templates for each waterbody. Digital and paper archives are maintained. Climatological analyses such as whole lake means and grid point normals are also produced.
- 2b. **Purpose of the Database** To compile a surface water temperature database for the Great Lakes which can be used for climate monitoring, air-water interaction studies, physical limnology studies, fisheries resource studies, water resources studies, and recreational boating, swimming and fishing.
- 3a. **Name and Address of Responsible Organization** Water Resources and Marine Adaptation Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Paul Louie (416) 739-4351 FAX: (416) 739-4297
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - surface water temperature
 - date, location
- 4b. **Geographic Coverage** Great Lakes
- 4c. **Data Acquisition Method(s)** Surface water temperatures of the Great Lakes (excluding Lake Michigan) were initially collected by airborne radiometer surveys from 1966 to 1979. Since 1980, water temperatures have been retrieved from the NOAA TIROS-N satellite using scanning radiometer AVHRR data. Routine analysis of the Lakes Erie, Huron, Ontario and Superior as well as the Bay of Fundy began in 1980; analysis of Lake Michigan began in 1987 while the St. Lawrence Seaway has been monitored on an irregular basis during freeze-up.
- 4d. **Geographic Unit(s) of Measurement** Temperature data referenced by latitude and longitude for grid point values but also represented by whole lake means.
- 4e. **Period of Record** 1966 - 1990.
- 4f. **Update Frequency** Uncertain.
- 4g. **Database Hardware/Software Configuration** IBM compatible mainframe computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps.
5. **Restrictions and Conditions** None.
6. **Price Information** There is a charge for reproduction costs.
7. **Corresponding Printed Sources** A report describing the surface water temperature climatology of the Great Lakes is planned.
8. **Languages** Database is numbers; the report will be bilingual.
9. **User Aids Available** Brief documentation is provided for the digital data products.
10. **Keywords** Aquatic ecosystems; GIS; Great Lakes; Hydrometeorology; Remote sensing; Satellite imagery; Water; Water temperature.
11. **Additional Information** None.

Surface Weather Maps - Atmospheric Environment Service

1. **Datafile Name(s)** Each of the six AES regions (see 11) maintains a weather map database.
- 2a. **Summary Description of Contents** Maps of surface weather data (air pressure, air temperature, wind, cloud cover, visibility, frontal systems) collected at six-hour intervals every day covering Canada, United States, eastern Pacific and western Atlantic Oceans.
- 2b. **Purpose of the Database** To provide an historical record of synoptic weather conditions for Canada to answer questions pertaining to insurance, law, etc.
- 3a. **Name and Address of Responsible Organization** Addresses of regional climate centres (see 11) can be obtained from Atmospheric Environment Service Headquarters, Environment Canada, 4905 Dufferin Street, Toronto, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
For regional climate centre telephone numbers contact:
AES Headquarters (416) 739-4328 FAX: (416) 739-4446
- 3c. **Access Mechanisms** Through the responsible Regional Climate Centre(s).
- 4a. **Variables Included (summarized if extensive)**
 - dew point
 - air pressure
 - air temperature
 - cloud cover
 - visibility
 - wind (speed, direction)
 - frontal systems
- 4b. **Geographic Coverage** Canada, most of the United States, eastern Pacific Ocean, western Atlantic Ocean.
- 4c. **Data Acquisition Method(s)** Data collected every six hours at 00z, 06z, 12z and 18z (z= zulu= international time) from monitoring stations across the continent.
- 4d. **Geographic Unit(s) of Measurement** Individual monitoring stations.
- 4e. **Period of Record** Varies among regions.
- 4f. **Update Frequency** Map series prepared daily.
- 4g. **Database Hardware/Software Configuration** Paper and microfilm.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps.
5. **Restrictions and Conditions** None.
6. **Price Information** \$1.20/map paper copy; cost recovery for film duplication.
7. **Corresponding Printed Sources** None.
8. **Languages** Databases in English for all regions and also in French for some regions.
9. **User Aids Available** Contact forecast offices of regional centres.
10. **Keywords** Climate monitoring; Marine; Marine forecasts; Meteorology; Weather; Weather forecasts; Weather maps.
11. **Additional Information** Regional climate centres are located in Vancouver, Edmonton, Whitehorse, Winnipeg, Toronto, Montreal and Halifax.

Threatened and Endangered Species

1. **Datafile Name(s)** None.
- 2a. **Summary Description of Contents** A national database that provides information on distribution, species biology and information sources for 73 threatened and endangered species in Canada, and data on the distribution of agricultural crops
- 2b. **Purpose of the Database** To examine the relationship between the distribution of nationally endangered and threatened species and pesticide use.
- 3a. **Name and Address of Responsible Organization** Wildlife Toxicology, National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Karen Lloyd (819) 997-6073 FAX: (819) 953-6612
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species parameters
 - name
 - distribution
 - status
 - source of information
 - habitat type
 - limiting factors
 - activity during various months
 - crop data
 - distribution of crops across Canada at the consolidated census subdivision level (from 1986 Census of Agriculture, Statistics Canada)
- 4b. **Geographic Coverage** All nationally threatened and endangered species as determined by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) (see 11)
- 4c. **Data Acquisition Method(s)** Species data obtained from status reports prepared for COSEWIC, individual researchers or other national databases at the Canadian Museum of Nature.
- 4d. **Geographic Unit(s) of Measurement** Species distribution vary from individual sites to large ranges. Crop information is at the consolidated census subdivision level
- 4e. **Period of Record** 1986 - present.
- 4f. **Update Frequency** Formerly annually; no longer updated
- 4g. **Database Hardware/Software Configuration** Microcomputer with SPANS and DBASE III software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables
5. **Restrictions and Conditions** Information on the exact locations of threatened and endangered species is restricted
6. **Price Information** No charge for reasonably-sized requests
7. **Corresponding Printed Sources** COSEWIC reports; the database information is more recent for some species.
8. **Languages** Database is in English.
9. **User Aids Available** None.
10. **Keywords** Biota; Biotic response; Endangered species; GIS; Habitats; Pesticides; Wildlife
11. **Additional Information** None.

Vehicle Emission Tests

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Statistics on regulated emissions and speciation of exhaust under a variety of conditions to determine fuel consumption in light duty cars and trucks. Some data on buses, other trucks and ships and alternative fuels
- 2b. **Purpose of the Database** To provide the basis for environmental decisions related to the use of new control technologies and alternative fuels, regulation development and the audit of new vehicle fleets
- 3a. **Name and Address of Responsible Organization** Vehicle Emissions Test Lab Environmental Technology Centre, Conservation and Protection, Environment Canada, River Road, Ottawa, Ontario, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Fred Hendren (613) 998-9590 FAX: (613) 998-0004
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - test condition (cold weather, parts disabled, etc.)
 - regulated emissions (total hydrocarbons, carbon monoxide, oxides of nitrogen, carbon dioxide)
 - speciation of exhaust (volatile organics, aldehydes, ketones, polycyclic aromatic hydrocarbons, nitrated compounds, sulphur compounds, hydrogen, particulate mass)
 - vehicle type (car, truck, bus, ship)
 - fuel (e.g. gasoline, diesel, propane, diesel mixes, natural gas)
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Twenty to forty tests per week are performed by the responsible organization
- 4d. **Geographic Unit(s) of Measurement** Individual test vehicles
- 4e. **Period of Record** 1974 - present
- 4f. **Update Frequency** With each test
- 4g. **Database Hardware/Software Configuration** Data archive on DEC PDP 1124 and PC LAN with FILES AVER Online access in lab with MICROSOFT EXCELL and IBM DOS based systems
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Recent data obtained for regulating the compliance program and data pertaining to inventions are not available
6. **Price Information** No charge
7. **Corresponding Printed Sources** Test reports are prepared for short term (e.g. 3-4 months) projects. Most reports are internal
8. **Languages** Reports are prepared in the language of the client
9. **User Aids Available** None
10. **Keywords** Air pollution, Emissions, Fuel, Hydrocarbons, Motor vehicles, Pollution, Pollution control equipment, Vehicles
11. **Additional Information** Testing will be expanded to include aircraft

**Water Quality Branch
Atlantic Region Map Inventory**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A series of maps showing rose diagrams of major ionic chemistry at surface water sampling sites and GIS generated maps of water quality data (e.g. nitrogen, phosphorus, lead and other metals from industrial waste).
- 2b. **Purpose of the Database** To provide technical information for locating and referencing water quality stations, interpreting water quality data and predicting the occurrence of toxics in surface water and sediments.
- 3a. **Name and Address of Responsible Organization** Water Quality Branch, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 861, Moncton, New Brunswick, E1C 8N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Lockerbie (506) 851-6606 FAX: (506) 851-6608
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - for surface water:
 - * major ions
 - * nitrogen
 - * phosphorus
 - * lead
 - * other metals
 - other data:
 - * census data on fertilizer and pesticide use in farmlands
 - * point sources of industrial waste
- 4b. **Geographic Coverage** Atlantic Provinces.
- 4c. **Data Acquisition Method(s)** Water quality data from field monitoring; other data from Land Registry Office, Summerside, PEI.
- 4d. **Geographic Unit(s) of Measurement** Variable, depending upon data set.
- 4e. **Period of Record** 1967 - present.
- 4f. **Update Frequency** As required.
- 4g. **Database Hardware/Software Configuration** IBM PC with SPANS plus paper map files.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, graphs, tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *An Application of SPANS Technology to Toxic Contaminant Monitoring in the Atlantic Region (1988).*
8. **Languages** Database is in English; report has French summary.
9. **User Aids Available** None.
10. **Keywords** Atlantic Canada; GIS; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island; Toxics; Water quality.
11. **Additional Information**
 1. A PC-based Geographic Atlas Information Network is being developed, using Quikmap, for searching, statistical summaries, and exporting data to the GIS for further analysis.
 2. The raw water quality monitoring data are sent to the National Water Quality Database in Ottawa, but the GIS integration information is retained in the region.

Western and Northern Region (C & P) Industrial Compliance

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information reported by industry on industrial compliance to national environmental protection regulations.
- 2b. **Purpose of the Database** To store industrial compliance data, reported by industry and to provide access to this information by regional staff.
- 3a. **Name and Address of Responsible Organization** Environmental Protection, Conservation and Protection, Western and Northern Region, Environment Canada, 2nd Floor, 4999-NW 98th Avenue, Edmonton, Alberta, T6B 2X3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Art Beckett (403) 468-8037 FAX: (403) 495-2615
- 3c. **Access Mechanisms** Through the contact person.
- 4a. **Variables Included (summarized if extensive)** Location of regulated industries under: Pulp and Paper Regulations; Metal Mining Regulations; Refinery Regulations. All required physical/chemical and toxicity data.
- 4b. **Geographic Coverage** Alberta, Saskatchewan, Manitoba, Northwest Territories.
- 4c. **Data Acquisition Method(s)** Information reported by industry.
- 4d. **Geographic Unit(s) of Measurement** Point source, site specific.
- 4e. **Period of Record** 1990 - present.
- 4f. **Update Frequency** Irregularly.
- 4g. **Database Hardware/Software Configuration** IBM PC, DBASE III+.
- 4h. **Output Format(s) (tables, maps, etc.)** Tabular report.
5. **Restrictions and Conditions** Some information is confidential.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** English.
9. **User Aids Available** None.
10. **Keywords** Alberta; Industry; Manitoba; Mining; Northwest Territories; Pollution control regulations; Pulp and paper; Refineries; Regulatory control; Saskatchewan.
11. **Additional Information** This database is under development. As such it is not currently searchable and most aspects remain changeable.

Western Canada Pelagic Seabird Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on the distribution of pelagic seabirds and oceanographic parameters along the west coast of British Columbia.
- 2b. **Purpose of the Database** To establish the distribution of pelagic seabirds along the west coast of British Columbia in order to prioritize areas of importance and minimize the detrimental impact of environmental disturbances (e.g. oil spills, gill nets)
- 3a. **Name and Address of Responsible Organization** Institute of Ocean Sciences, Canadian Wildlife Service, Conservation and Protection, Pacific and Yukon Region, Environment Canada, P.O. Box 6000, Sidney, British Columbia, V8C 4B2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Kees Vermeer (604) 356-6537 FAX: (604) 356-6390
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - seabird species, number of birds and food habits
 - distance from shore
 - water depth, water temperature
 - location of shelfbreak
 - salinity
 - weather conditions
- 4b. **Geographic Coverage** West coast of British Columbia
- 4c. **Data Acquisition Method(s)** Data acquired through contractors, students, from oceanographic vessels.
- 4d. **Geographic Unit(s) of Measurement** Ten minute observation periods along transects for which latitude and longitude of the start and end points are recorded
- 4e. **Period of Record** 1982 - present.
- 4f. **Update Frequency** Gaps in area coverage are closed as funds become available.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** None.
6. **Price Information** Contact responsible organization
7. **Corresponding Printed Sources** A summary report is being planned. Several publications have been prepared (see 11)
8. **Languages** Reports are in English with French abstracts.
9. **User Aids Available** None
10. **Keywords** Biota; Birds; British Columbia; Pacific; Seabirds; Wildlife
11. **Additional Information**
 1. Four reports have been produced, for example:
Vermeer, K., R. Hay and L. Rankin (1987). *Pelagic Seabird Populations of Southwestern Vancouver Island*. Canadian Technical Report of Hydrology and Ocean Sciences No. 87.
Vermeer, K. and L. Rankin (1985). *Pelagic Seabird Populations in Dixon Entrance*. Canadian Technical Report of Hydrology and Ocean Sciences No. 65
Vermeer, K. and L. Rankin (1984). *Pelagic Seabird Population in Hecate Strait and Queen Charlotte Sound: Comparison with the West Coast of the Queen Charlotte Islands*. Canadian Technical Report of Hydrology and Ocean Sciences No. 52
Vermeer, K., I. Robertson, I.W. Campbell, G. Kaiser and M. Lemon (1983) *Distribution and Densities of Canadian Marine Birds on the West Coast*. Canadian Wildlife Service Report, Vancouver, B.C. 74 p.
 2. Provided funding is received to prepare a summary report, the data will be computerized.

Whooping Crane Migratory Records - Saskatchewan

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Sightings of whooping cranes during spring and fall migration in the Prairie Provinces from 1956 - present
- 2b. **Purpose of the Database** To provide information about important stopover areas for the endangered whooping crane
- 3a. **Name and Address of Responsible Organization** Migratory Birds Section, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road Saskatoon, Saskatchewan, S7N 0X4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Brian Johns (306) 975-4109 FAX: (306) 975-4089
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - number of birds (adults, young)
 - banding code
 - date
 - location
 - duration of stay
 - habitat (type and location)
- 4b. **Geographic Coverage** Saskatchewan
- 4c. **Data Acquisition Method(s)** During the spring and fall migration, observers across the province call in their observations on a telephone hotline, the reports are verified by the Canadian Wildlife Service
- 4d. **Geographic Unit(s) of Measurement** Sighting locations referenced by township and range, latitude and longitude
- 4e. **Period of Record** 1957 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Minicomputer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Access to endangered species data may be restricted
6. **Price Information** No charge
7. **Corresponding Printed Sources** *The Canadian Whooping Crane Migration Report* (spring). *The Canadian Whooping Crane Migration Report* (fall). *Preliminary Identification of Whooping Crane Staging Areas in Prairie Canada. Whooping Crane Sightings in the Prairie Provinces 1979 - 1985*
8. **Languages** The reports and database are in English
9. **User Aids Available** None
10. **Keywords** Birds; Endangered species; Migratory birds; Saskatchewan; Whooping crane; Wildlife
11. **Additional Information** None

World Ozone Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on atmospheric ozone concentrations from around the world (troposphere and stratosphere) collected by Environment Canada for the World Meteorological Organization (WMO).
- 2b. **Purpose of the Database** To support ozone climatology research and to monitor changes in ozone concentrations.
- 3a. **Name and Address of Responsible Organization** World Ozone Data Centre, Atmospheric Environment Centre, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. L.R. Morrison (416) 889-7275 FAX: (416) 739-4281
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - ozone concentrations
 - surface ozone
 - total ozone
 - Umkehr observations (vertical observations in the atmosphere)
 - ozone sondes (direct measurements using balloons at various altitudes)
 - LIDAR aerosol observations (atmospheric particulate concentration using a ground-based laser)
- 4b. **Geographic Coverage** Global.
- 4c. **Data Acquisition Method(s)** Direct measurements using ground-based and airborne instruments.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1957 - present.
- 4f. **Update Frequency** As required.
- 4g. **Database Hardware/Software Configuration** AS9, IBM developed system (mainframe).
- 4h. **Output Format(s) (tables, maps, etc.)** Numbers and reports (see 7).
5. **Restrictions and Conditions** None.
6. **Price Information** Charge varies, depending on nature of request.
7. **Corresponding Printed Sources** Report published bi-monthly *Ozone Data for the World*, available from the responsible organization.
8. **Languages** English and French.
9. **User Aids Available** None.
10. **Keywords** Air quality; Climate change; International; Monitoring; Ozone.
11. **Additional Information** None.

FISHERIES AND OCEANS

Central and Arctic Region

<i>Fisheries and Oceans Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
BARROW STRAIT-LANCASTER SOUND ARCTIC MARINE FOOD WEB DATABASE	H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131	110
CANADIAN ZOOPLANKTON DATABASE	Dr. Kazimirez Patalas	110
DFO CENTRAL AND ARCTIC REGION FISHERY STATISTICS	Mr. Peter Thompson (204) 983-5227 Ms. Laura Anderson (204) 983-5229	111
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EXPERIMENTAL LAKES AREA (ELA) NORTHWESTERN ONTARIO ECOSYSTEM DATABASE	Ms. Susan Kasian (204) 983-5221	112
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LONG RANGE TRANSPORT OF ATMOSPHERIC POLLUTANTS - ORGANICS	Dr. Lyle Lockhart (204) 983-7113	114
MAYFLIES, STONEFLIES AND CADDISFLIES OF MANITOBA	Dr. John Flannagan (204) 983-0864	114
NORTHWESTERN ONTARIO LAKE SIZE SERIES WATER DATABASE	Dr. Everett Fee (204) 983-5172	115
SAQVAQUJAC FIELD STATION ARCTIC ECOSYSTEM DATABASE	H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131	115
STABLE ISOTOPE DATA	Dr. Raymond H. Hesslein (204) 983-5251	116

Barrow Strait-Lancaster Sound Arctic Marine Food Web Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A multidisciplinary collection of databases which include biological, chemical and physical information about the Arctic marine ecosystem.
- 2b. **Purpose of the Database** The databases support the concepts of energy flow and trophic relations in the complex Arctic marine food web.
- 3a. **Name and Address of Responsible Organization** Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131
FAX: (204) 984-2404
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - water: CTD profiles, nutrients, chemistry and chlorophyll
 - phytoplankton production
 - ice algae production
 - ice-associated amphipod composition and abundance
 - zooplankton composition and abundance
 - zoobenthos composition and abundance
 - seabird stomach sample analysis
 - ringed and bearded seal, walrus, narwhal and beluga stomach sample analysis
- 4b. **Geographic Coverage** Barrow Strait and western Lancaster Sound.
- 4c. **Data Acquisition Method(s)** Small scale and large scale transects by vessel or snowmobile. Nutrients collected weekly at a regular sampling location 5 km from Resolute Bay field camp.
- 4d. **Geographic Unit(s) of Measurement** Various.
- 4e. **Period of Record** Varies by discipline, overall 1984-1990, ongoing.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** Varies by discipline: ASCII files on VAX; LOTUS spreadsheet on IBM PC; DBASE III+ on IBM PC.
- 4h. **Output Format(s) (tables, maps, etc.)** Publications with text, tables, graphs and maps.
5. **Restrictions and Conditions** At discretion of the Section Scientist.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** 6 primary publications, 1 data report and 4 theses.
8. **Languages** The database is in English. Publications in English with abstracts translated into French.
9. **User Aids Available** None.
10. **Keywords** Algae; Amphipods; Aquatic ecosystems; Arctic; Biota; Biotic response; Energy flow; Ice; Mammals; Marine; Phytoplankton; Plankton; Zooplankton.
11. **Additional Information** None.

Canadian Zooplankton Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database on the distribution and abundance of zooplankton and water chemistry data for Canadian lakes.
- 2b. **Purpose of the Database** To collect zooplankton data useful in predicting the effects of climate change.
- 3a. **Name and Address of Responsible Organization** Biological Sciences Directorate, Freshwater Institute, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Kazimierz Patalas
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - climate (e.g. mean July air temperature)
 - water temperature
 - water chemistry (total dissolved solids, calcium, potassium, sodium, iron, etc.)
 - planktonic crustaceans (Cyclopidae, Calanoidae, Cladocera)
 - length of open water season
 - growing season
- 4b. **Geographic Coverage** More than 1,000 lakes within 45°-80° N latitude and 40°-140° W longitude.
- 4c. **Data Acquisition Method(s)** Mid-summer plankton sampling (900 lakes); data from literature (100 lakes).
- 4d. **Geographic Unit(s) of Measurement** Lakes referenced by latitude, longitude.
- 4e. **Period of Record** 1961 - 1987.
- 4f. **Update Frequency** As samples analyzed.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with LOTUS 1-2-3 software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** The whole dataset will not be released until it is reviewed and verified; inquires concerning the availability of limited subsets should be addressed to the contact person.
6. **Price Information** No charge.
7. **Corresponding Printed Sources**
 1. Many publications in scientific journals on particular groups of lakes (see 11).
 2. Most recent article: *Diversity of the Zooplankton Communities in Canadian Lakes as a Function of Climate*. Proceedings of the International Association of Limnology Congress (1989).
8. **Languages** The database and papers are in English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biota; Biotic response; Freshwater; Plankton; Zooplankton.
11. **Additional Information**
 1. The database and samples are being transferred to the Canadian Museum of Nature in Ottawa.
 2. A book on the zoogeography of zooplankton in Canadian lakes is in preparation.

DFO Central and Arctic Region Fishery Statistics

1. **Datafile Name(s)** Freshwater Fish Marketing Corporation (FFMC) and Department of Fisheries and Oceans (DFO) Database, DFO Ontario Database, and DFO Northwest Territories Database.
- 2a. **Summary Description of Contents** *FFMC/DFO Database:* commercial fish harvest data for transactions between commercial fishermen and the FFMC, a federal crown corporation formed to be the sole buyer and seller of fish intended for export from the Northwest Territories, the provinces of Alberta, Saskatchewan, and Manitoba, and a designated region of northwestern Ontario. *DFO Ontario Database:* commercial fish harvest data (major lakes only). *DFO Northwest Territories (NWT) Database:* commercial fish harvest data, marine mammal harvest statistics, recreational harvests (limited data), commercial and recreational licence sales.
- 2b. **Purpose of the Database** Provide data for DFO Central and Arctic Region's fisheries and habitat management program.
- 3a. **Name and Address of Responsible Organization** Program Coordination and Economics Branch, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Thompson (204) 983-5227 Ms. Laura Anderson (204) 983-5229
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - *FFMC/DFO Database:* location (lat/long, lake name); species; quantity; landed value
 - *DFO Ontario Database* (major lakes): location (name), species; quantity; landed value
 - *DFO NWT Database*
 - commercial and exploratory fisheries: location (lake name); species; quantity; landed value
 - recreational fisheries (Great Bear Lake and Blachford Lake): species; quantity
 - marine mammals: species; community; quantity
 - licences (commercial): licensee (address, name); intended fishing area; intended species
 - licences (recreational): licensee (name, residence); type of licence (resident, non-resident)
- 4b. **Geographic Coverage**
FFMC/DFO Database: NWT, Alberta, Manitoba, Saskatchewan, and Ontario (only in a portion of northwestern Ontario)
DFO Ontario Database: Province of Ontario
DFO NWT Database: Northwest Territories
- 4c. **Data Acquisition Method(s)** *FFMC/DFO Database:* commercial fisheries data received from FFMC sales slips. *DFO Ontario Database:* summary records from Province of Ontario. *DFO NWT Database:* commercial fisheries data from NWT trade records, fish co-operatives or FFMC records; marine mammal data from personal communication with harvesters, Government of Northwest Territories wildlife officers and for some communities the GNWT harvest study; recreational data from angler diary program; commercial licences from DFO Area records, and recreational licences from GNWT records of vendor sales.
- 4d. **Geographic Unit(s) of Measurement** *FFMC/DFO Database:* Waterbody (latitude, longitude, name). *DFO Ontario Database:* Waterbody (name). *DFO NWT Database:* Waterbody (latitude, longitude, name) for commercial fishery, community for marine mammal harvest.
- 4e. **Period of Record** *FFMC/DFO Database:* 1970 to present. *DFO Ontario Database:* 1988 to present. *DFO NWT Database:* 1945 to present.
- 4f. **Update Frequency** *FFMC/DFO Database:* Semi-annual. *DFO Ontario Database:* Annual. *DFO NWT Database:* Annual.
- 4g. **Database Hardware/Software Configuration** *FFMC/DFO Database:* VAX computer with custom software; also paper files. *DFO Ontario Database:* VAX computer with SAS/2020 software; also paper files. *DFO NWT Database:* VAX computer with SAS/2020 software; also paper files.
- 4h. **Output Format(s) (tables, maps, etc.)** For all systems, tables.
5. **Restrictions and Conditions** For all systems, information on individuals is restricted.
6. **Price Information** *FFMC/DFO Database:* incremental costs for computer runs for data; no charges for other requests.

7. **Corresponding Printed Sources**
FFMC/DFO Database: *Annual Summary of Fish Harvesting Activities, Western Canadian Fisheries 1988-89, Volume 7.* Freshwater Institute, Central and Arctic Region, Department of Fisheries and Oceans, Winnipeg, Manitoba. *Canadian Fisheries Annual Statistical Review 1985, Volume 18.* Economic Analysis and Statistics Division, Economic and Commercial Analysis Directorate, Department of Fisheries and Oceans, Ottawa, Ontario.
DFO Ontario Database: *Annual Summary of Fish Harvesting Activities, Central and Arctic Region 1988.* Freshwater Institute, Central and Arctic Region, Department of Fisheries and Oceans, Winnipeg, Manitoba.
DFO NWT Database: Strong, J.T. 1989. "Reported Harvest of Narwhal, Beluga, and Walrus in the Northwest Territories 1948-1987". *Canadian Data Report of Fisheries and Aquatic Sciences*, 734. Yaremchuk, G.C.B. et al. 1989. "Commercial Harvest of Major Fish Species from the Northwest Territories 1945-1987". *Canadian Data Report of Fisheries and Aquatic Sciences*, 751. *Sport Fishing in the Northwest Territories, 1985.* Communications Directorate, Department of Fisheries and Oceans, Ottawa, Ontario.
Northwest Territories Sport Fishing Licence Sales 1988-1989. Department of Fisheries and Oceans, Central and Arctic Region, Winnipeg, Manitoba.
8. **Languages** Published reports are in English and French; some earlier reports are in English with French abstracts.
9. **User Aids Available** None
10. **Keywords** Alberta; Aquatic ecosystems; Arctic, Biota, Commercial fishing, Fish, Fisheries, Mammals; Manitoba; Marine mammals, Northwest Territories, Ontario, Saskatchewan, Sport fishing
11. **Additional Information**
 1. The information collected by DFO varies across the Provinces (Alberta, Saskatchewan, Manitoba, and Ontario) and the Territories (Northwest and Yukon (North Slope)) which comprise the Central and Arctic Region. DFO's information requirements are greatest for the Northwest Territories where DFO has ongoing, direct fishery management responsibilities and for the Great Lakes where DFO meets international obligations for fishery management. Day-to-day fishery management has been delegated to the provinces making DFO's information requirements are more general (although recent legal decisions suggest there will be a greater role for DFO in habitat management). Provincial fishery management agencies maintain files, generally computerized, with information pertinent to their direct management activity (e.g., commercial licensing systems). As part of the federal government's commitment to the political and economic evolution of the North, DFO and the Government of the Northwest Territories are continuing negotiations on the delegation of province-like fishery management responsibilities for the NWT freshwater fishery (but not the anadromous and marine fishery).
 2. In addition to the reports in 7, DFO publishes reports which address harvesting specific regional fisheries e.g., "Arctic Char Commercial Fisheries of the NWT" *Canadian Data Report on Fishery and Aquatic Sciences*, 681, "Great Slave Lake Commercial Fishery". *Canadian Data Report on Fishery and Aquatic Sciences*, 641, and "Great Bear Lake Lodge-access Sport Fishery". *Canadian Data Report on Fishery and Aquatic Sciences*, 710. Additional information can be obtained from items such as Marshall and Layton's "An Index to the Publications of the Staff of the Central and Arctic Region, Department of Fisheries and Oceans, 1980-81" *Canadian Data Report on Fishery and Aquatic Sciences*, 1273.
 3. DFO Central and Arctic Region is in the process of developing an improved data handling storage and analysis system to improve information exchange between the NWT Area offices and Regional headquarters.

Contaminants in Fish Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Pesticide and heavy metal concentrations in commercial fish species in the Great Lakes and other lakes in Canada.
- 2b. **Purpose of the Database** To assess commercial fish contamination for the enforcement of safety guidelines set by Health and Welfare Canada.
- 3a. **Name and Address of Responsible Organization** Inspection Services Branch, Central and Arctic Region, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Marilyn Hendzel (204) 983-5067
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - risk classification of lake (1-4)
 - fish species (walleye, northern pike, lake trout, smelt, yellow perch, herring, sunfishes, catfish, etc.)
 - fish (weight, length)
 - contaminants (mercury; PCB's; pesticides - dieldrin, DDE, chlordane, mirex, etc.)
 - date, location
- 4b. **Geographic Coverage** 1,200 lakes in Ontario, Prairie Provinces and Northwest Territories, plus the Great Lakes.
- 4c. **Data Acquisition Method(s)** Fish inspectors sample commercial catches.
- 4d. **Geographic Unit(s) of Measurement** Samples located by latitude, longitude, lake, watershed.
- 4e. **Period of Record** 1970 - present.
- 4f. **Update Frequency** As catches are sampled.
- 4g. **Database Hardware/Software Configuration** VAX computer with RDB software supplied by DIGITAL.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** No data on individual fishermen or companies will be released.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *List of Lakes Classified by Contaminant Level.*
8. **Languages** The database and document are in English.
9. **User Aids Available** None.
10. **Keywords** Alberta; Biota; Biotic response; Contaminants; Fish; Fisheries; Great Lakes; Harvesting; Lakes; Manitoba; Northwest Territories; Ontario; Prairies; Saskatchewan.
11. **Additional Information**
 1. Information on whitefish parasites, (housed in another small database), is also given in the publication.
 2. The data are sent to the Regional Office by the district offices.

Experimental Lakes Area (ELA) Northwestern Ontario Ecosystem Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A multidisciplinary collection of databases includes biological, chemical, physical, hydrological and meteorological information about pristine and manipulated lakes, streams, and watersheds in the area.
- 2b. **Purpose of the Database** The databases support the whole-lake ecosystem research conducted at the ELA.
- 3a. **Name and Address of Responsible Organization** Fish Habitat Research Division, Biological Sciences Directorate, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Susan Kasian (204) 983-5221
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - water (lakes, streams, sediment pore, precipitation): nutrients, major ions, silica, pH, alkalinity, conductivity, chlorophyll(lakes only), trace metals, stable isotope ratios, radioisotopes, organochlorines
 - phytoplankton photosynthesis, nutrient status
 - phytoplankton species and biomass
 - zoobenthos and zooplankton species and abundance
 - fish species, age, length, weight, carbon and nitrogen isotopes, physiological parameters
 - phytoebenthos photosynthetic parameters, species
 - paleolimnology of diatom species
 - meteorology: air temperature, evaporation, hours of sunshine, precipitation, relative humidity, snow depths, solar radiation, wind
 - ice off/on data
 - lake levels
 - light attenuation and temperature profiles and Secchi depths in lakes
 - inflow and outflow stream discharges
 - uplands: soil chemistry, physical properties, soil suction, bedrock geology, and surface chemistry
- 4b. **Geographic Coverage** 92 lakes and 47 associated streams in northwestern Ontario were studied over 23 years.
- 4c. **Data Acquisition Method(s)** Lakes and streams sampled every two weeks to one month. Some meteorological data is collected hourly to daily.
- 4d. **Geographic Unit(s) of Measurement** Lake number from map of the Experimental Lakes Area, published by Fisheries Research Board.
- 4e. **Period of Record** Varies by lake and discipline, 1968 to 1990.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** Varies by discipline but primarily: ASCII files on VAX, DBASE III/IV and custom software on IBM PC's.
- 4h. **Output Format(s) (tables, maps, etc.)** Graphs, tables.
5. **Restrictions and Conditions** At the discretion of the Section and Project Scientists.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** 400 primary publications, 100 Data or Technical Reports, 40 Theses.
8. **Languages** The database is in English. Publications in English with French abstracts
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biotic response; Climate; Freshwater; Lakes; Ontario.
11. **Additional Information**
 1. Approximately 25 lakes, their associated streams and meteorological parameters will be monitored for the foreseeable future.
 2. A multidisciplinary database, residing on a VAX computer, is being planned.

Fish Habitat Database for the Northwest Territories

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A bibliographic database of freshwater fish and fish habitat data collected in the Northwest Territories, particularly the Mackenzie River valley portion.
- 2b. **Purpose of the Database** To collate existing data on fish and fish habitat for fishery and habitat management purposes.
- 3a. **Name and Address of Responsible Organization** Fisheries and Habitat Management Directorate, Resource Allocation and Habitat Management Division, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bruce Fallis (204) 983-5221 or (204) 983-5162 (messages)
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - for rivers: velocity, discharge, watershed area, ice-free period; fish movement barriers; heavy metals (in biota, sediments, water) and other metals; organic contaminants; species present (fish); fish (spawning condition, age, sex, maturity); fishery status; habitat use (spawning, nursery, migration); phytoplankton, zooplankton, benthos, macrophytes
 - for lakes: bathymetry, volume, shoreline development index; sediment samples; substrate description; habitat use by fish; ice-free period
- 4b. **Geographic Coverage** Northwest Territories.
- 4c. **Data Acquisition Method(s)** Literature review and personal communication with industry, government and other individuals from the private sector.
- 4d. **Geographic Unit(s) of Measurement** Sites referenced by latitude, longitude, name and unit areas of the Water Survey of Canada area units.
- 4e. **Period of Record** Anything pertinent (emphasis on 1980 - present)
- 4f. **Update Frequency** Continually updated.
- 4g. **Database Hardware/Software Configuration** VAX computer with 2020 software
- 4h. **Output Format(s) (tables, maps, etc.)** Text, tables.
5. **Restrictions and Conditions** Data from industry may be restricted
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None currently.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biota; Fish; Northwest Territories
11. **Additional Information**
 1. Coverage for the Mackenzie Valley drainage basin is complete; the remainder of the Territories is 40% finished.
 2. There are plans to produce a hard copy of the database and to eventually put it on disk for distribution in a DBASE format.

Fisheries and Marine Mammal Resource Inventory and Critical Habitat Database

1. **Datefile Name(s)** Data sets are filed by area and species
- 2a. **Summary Description of Contents** A database on important habitat and species distribution for fish and marine mammals in the western Canadian Arctic and Arctic Islands, Lancaster Sound Land Use Planning Area. Development of a database for Hudson Bay and District of Keewatin is currently underway.
- 2b. **Purpose of the Database** To provide information on critical habitat and distribution of important species for land use planning and emergency management
- 3a. **Name and Address of Responsible Organization** Fisheries and Habitat Management Directorate, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg, Manitoba, R3T 2N6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dennis Wright (204) 983-5204 Mr. Larry DeMarch (204) 983-5186
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species
 - whales (beluga, bowhead, narwhal)
 - seals (bearded, ring)
 - walrus
 - fish (Arctic char, cod, whitefish, ciscoes, smelts, capelin, herring, major species of freshwater, anadromous and marine fish)
 - distribution (presence, absence)
 - habitat use (feeding, spawning, migration, overwintering)
- 4b. **Geographic Coverage** Western Canadian Arctic and Arctic Islands, Lancaster Sound Land Use Planning Area, Hudson Bay and District of Keewatin
- 4c. **Data Acquisition Method(s)** From the literature and region staff
- 4d. **Geographic Unit(s) of Measurement** Polygons at 1:1,000,000 designated by UTM grid
- 4e. **Period of Record** 1981 - present
- 4f. **Update Frequency** Continually
- 4g. **Database Hardware/Software Configuration** HP 2700 computer with custom software. Currently putting Hudson Bay and Keewatin database are being put into ESL-QUICKMAP System
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, text
5. **Restrictions and Conditions** None
6. **Price Information** No charge for Atlas or printouts
7. **Corresponding Printed Sources**
 1. Published atlas - *An Atlas of Important Habitats Through the Beaufort Sea and Northwest Passage, 1985*
 2. Maps prepared for Lancaster Sound Land Use Planning Area
 3. Maps prepared for Beaufort Sea-Mackenzie Delta Land Use Planning Area
 4. Maps, text and literature review in preparation for Hudson Bay and District of Keewatin
8. **Languages** The database and atlas are in English
9. **User Aids Available** None
10. **Keywords** Aquatic ecosystems; Arctic; Biota; Critical habitats; Fish; Mammals, Marine mammals
11. **Additional Information**
 1. A map indicating priority areas of significant habitat is currently available for a large portion of the Arctic; mapping will be extended to cover the rest of the Arctic
 2. Some of the database is being put on SPANS

Long Range Transport of Atmospheric Pollutants - Organics

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Contaminant data in sediment cores and fish species for several lakes along a latitudinal transect in northern Canada.
- 2b. **Purpose of the Database** To examine trends in contaminant levels in northern Canada.
- 3a. **Name and Address of Responsible Organization** Contaminants Research, Contaminant and Toxicology, Physical and Chemical Sciences Branch, Central and Arctic Region, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. Lyle Lockhart (204) 983-7113
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - sediment samples include: stable organochlorines (e.g. chlordane, PCBs, toxaphene, dieldrin, etc.); polycyclic aromatic hydrocarbons (16 EPA priority compounds); metals (cadmium, zinc, titanium, manganese, lead); radionuclides (lead isotopes)
 - fish tissue samples (lake trout, Arctic char) include: organochlorines; heavy metals; enzyme activity in liver
- 4b. **Geographic Coverage** Northwest Territories - seven sites, including 2 near Kluane, 2 lakes and a fjord at Chesterfield Inlet (Hudson Bay), 2 lakes near Resolute Bay.
- 4c. **Data Acquisition Method(s)** Core and tissue samples collected in the field.
- 4d. **Geographic Unit(s) of Measurement** Samples referenced by lake name, latitude, longitude.
- 4e. **Period of Record** Cores cover at least the last 100+ years; some samples cover several hundred years.
- 4f. **Update Frequency** Not applicable.
- 4g. **Database Hardware/Software Configuration** VAX computer.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Priority for publication is held by the researcher; subsequently the data would be available without conditions.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None at present (see 11).
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Air pollution; Aquatic ecosystems; Arctic; Biotic response; Contaminants; Fish; Organic pollutants; Sediments; Toxics.
11. **Additional Information**
 1. This database is in preparation.
 2. There are plans to publish the data in scientific journals when the Resolute Bay analysis is complete.
 3. The database will be extended to include Hazel Lake on Ellesmere Island.
 4. This project is a cooperative effort of four researchers who can be reached through the contact person.

Mayflies, Stoneflies and Caddisflies of Manitoba

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Distribution of three aquatic insect orders in Manitoba and North America.
- 2b. **Purpose of the Database** To document the distribution of three aquatic insect orders and assess their postglacial origins.
- 3a. **Name and Address of Responsible Organization** Fish Habitat Research Division, Biological Sciences Directorate, Freshwater Institute, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. John Flannagan (204) 983-0864
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species and location in Manitoba (lake, river name)
 - North American location (presence/absence in drainage basins)
- 4b. **Geographic Coverage** Manitoba (specific occurrences); North America (range).
- 4c. **Data Acquisition Method(s)** Published literature and field data collection.
- 4d. **Geographic Unit(s) of Measurement** Distribution in Manitoba by lake, river; within North America by drainage basins (see National Atlas of Canada).
- 4e. **Period of Record** Up to 1982.
- 4f. **Update Frequency** As information is accumulated.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Report contains tables and maps as well as text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Flannagan, P.M. and Flannagan, J.M., (1982). *Present Distribution and the Postglacial Origin of the Ephemeroptera, Plecoptera and Trichoptera of Manitoba*. Technical Report No. 82-1. Manitoba Department of Natural Resources.
8. **Languages** The report is in English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biota; Biotic response; Insects; Manitoba.
11. **Additional Information**
 1. This database may serve as baseline data for assessing changes in environmental quality. It is also useful as a fish habitat indicator.
 2. Additional data are being collected on emerging insects.
 3. Generally the data are collected with reference to a specific issue, rather than from a general survey.

Northwestern Ontario Lake Size Series Water Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on water chemistry and aquatic organisms for lakes of varying surface area in northern Ontario.
- 2b. **Purpose of the Database** To examine the relationship between spatial scale and the response of lakes to environmental change.
- 3a. **Name and Address of Responsible Organization** Fish Habitat Research Division, Biological Sciences Directorate, Western and Arctic Region, Department of Fisheries and Oceans, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Everett Fee (204) 983-5172
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - nutrients (nitrogen species, phosphorus species, carbon species)
 - major ions (sodium, potassium, chloride, magnesium, sulphate, calcium)
 - alkalinity
 - methyl mercury and organic contaminants in water, sediment and fish
 - phytoplankton photosynthesis
 - phytoplankton (biomass, species)
 - bacteria and picoplankton
 - zooplankton (biomass, species)
 - fish (species; carbon, nitrogen isotopes)
 - microbial decomposition rates
 - pH, temperature, light, meteorological data
- 4b. **Geographic Coverage** Six lakes of varying sizes in northern Ontario.
- 4c. **Data Acquisition Method(s)** Lakes are sampled every 2-3 weeks in the summer and twice in the winter; meteorological data are from the Atmospheric Environment Service.
- 4d. **Geographic Unit(s) of Measurement** Lakes samples located by latitude, longitude.
- 4e. **Period of Record** 1985 - present.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** VAX computer for data storage; data manipulation using IBM microcomputer with DBASE III software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Fee *et al.* (1988). *Climate and Lake Variability Research in the Red Lake Area (1985 - 86 data)*.
8. **Languages** The database and report are in English
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Biotic response; Climate; Freshwater; Lakes; Ontario; Water quality.
11. **Additional Information**
 1. Lakes Nipigon and Superior are to be added to the 6 lakes currently in the database so that the size range will be from 90 to 8,220,000 hectares.
 2. This database will be increased over a ten-year sampling program.
 3. Another report is planned.

Saqqvaquac Field Station Arctic Ecosystem Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A multidisciplinary collection of databases including biological, chemical, hydrological and meteorological information on manipulated (nitrogen and phosphorus-fertilized) lakes. Some marine work to duplicate studies done in Barrow Strait-Lancaster Sound
- 2b. **Purpose of the Database** The databases support the whole-lake ecosystem research conducted at Saqqvaquac, NWT
- 3a. **Name and Address of Responsible Organization** Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131
FAX: (204) 984-2404
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - under-ice water circulation of lakes
 - nitrogen fixation by epilithic periphyton
 - winter respiration of lakes
 - hydrological and meteorological observations
 - precipitation chemistry and chemical limnology of natural and fertilized lakes
 - chironomid emergence in manipulated lakes
 - macrobenthos (amphipod and Trichoptera) production in manipulated lakes
 - Arctic char and lake trout data (including abundance, size, growth and diet) from experimental lakes
 - Saqqvaquac river fish data (includes information on Andromeda char)
 - miscellaneous information on fish from other lakes in the area
 - Greenland cod biology
 - marine water chemistry
 - ice algae production and ice-associated amphipod composition and abundance
 - some ringed seal stomach analysis
- 4b. **Geographic Coverage** Research was centred at 63° 39' N, 90° 39' W at the Saqqvaquac Research camp, 40 km north of Chesterfield Inlet, northwest Hudson Bay
- 4c. **Data Acquisition Method(s)** Routine sampling procedures, some seasonal, some year-round.
- 4d. **Geographic Unit(s) of Measurement** Various
- 4e. **Period of Record** Varies by discipline, overall 1977-1983, 1988
- 4f. **Update Frequency** Work completed, some publications in progress
- 4g. **Database Hardware/Software Configuration** Varies by discipline. ASCII files on VAX; LOTUS spreadsheet on IBM PC, DBASE III+ on IBM PC
- 4h. **Output Format(s) (tables, maps, etc.)** Publications with text, tables, graphs and maps.
5. **Restrictions and Conditions** At discretion of the Section Scientist
6. **Price Information** No charge
7. **Corresponding Printed Sources** 10 primary publications, 3 data and technical reports, 2 primary publications in press and 2 theses
8. **Languages** The database is in English. Publications in English with abstracts translated into French
9. **User Aids Available** None
10. **Keywords** Amphipods; Aquatic ecosystems; Arctic; Arctic Char, Chironomids, Biotic response; Cod, Eutrophication; Fish; Freshwater, Ice; Lake trout, Lakes
11. **Additional Information** None

Stable Isotope Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Stable isotopic analyses of sulphur, carbon and nitrogen in geochemical and biological components of the Canadian aquatic food chains.
- 2b. **Purpose of the Database** The database supports the development and application of stable isotope methodology for the interpretation of aquatic food chains.
- 3a. **Name and Address of Responsible Organization** Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Raymond H. Hesslein (204) 983-5251
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - stable isotopes of sulphur (S34), carbon (C13) and nitrogen (N15) in water, sediments, fish, invertebrates, macrophytes
- 4b. **Geographic Coverage** Mackenzie Delta; Northwestern Ontario; Arctic coastal freshwater systems.
- 4c. **Data Acquisition Method(s)** Mass spectrometry.
- 4d. **Geographic Unit(s) of Measurement** Names of sites.
- 4e. **Period of Record** 1981-1991.
- 4f. **Update Frequency** Weekly when data is being produced.
- 4g. **Database Hardware/Software Configuration** DBASE III/IV on IBM PC.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** At discretion of the Project Leader.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Data reports and primary publications.
8. **Languages** Publications in English with abstracts translated into French.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Arctic; Lakes; Sulphur.
11. **Additional Information** None.

FISHERIES AND OCEANS

Pacific and Yukon Region

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IN-SEASON PACIFIC SALMON CATCH MONITORING SYSTEM	Mr. Vic Palermo (604) 666-6592 Mr. Albert Wong (604) 327-1048	124
KILLER WHALES DATABASE	Database Manager (604) 756-7253	124
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OCEANOGRAPHIC DATA INVENTORY SYSTEM (ODIS)	Mr. Brian Smiley (604) 363-6551 Mr. Larry de March (204) 983-5186	125
PACIFIC COMMERCIAL FISH CATCH STATISTICS SYSTEM (CCSS)	Mr. James Bjerring (604) 666-2630	126
PACIFIC FISHERIES LICENCING DATABASE	Mr. Stephen Brownlee (604) 666-2076	126
PACIFIC GROUND FISH CATCH AND CATCH EFFORT DATABASE	Mrs. Kathy Rutherford (604) 756-7171	127
PACIFIC HAIL CATCH (SALMON) DATABASE	Mr. Ron Goruk (604) 624-0460	127
PACIFIC HAKE OBSERVER DATABASE	Mr. Mark Saunders (604) 756-7154 Mr. Barry Ackerman (604) 666-39912	128
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PACIFIC SALMON MARK RECOVERY PROGRAM DATABASE	Mr. Louis Lapi (604) 756-7144	129
SALMONID ENHANCEMENT PLANNING INFORMATION CONTROL DATABASE (EPIC)	Ms. Sue Lehman (604) 666-2039 Mr. Greg Steer (604) 666-0115	130
SEA LIONS DATABASE	Database Manager (604) 756-7253	130

Abalone Harvest Log

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A regional database providing catch, effort (hours), location, diver name and licence number for the B.C. abalone fishery.
- 2b. **Purpose of the Database** To record catch/effort and to confirm international quota landings for B.C. abalone fisheries.
- 3a. **Name and Address of Responsible Organization** Herring/Shellfish Section, Management Biology Unit, North Coast Division, Department of Fisheries and Oceans, 202-417 West 2nd Avenue, Prince Rupert, B.C., V8J 1G8.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Sue Farlinger (604) 624-0464 Mr. Greg Thomas (604) 624-0465
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - catch
 - effort
 - location
- 4b. **Geographic Coverage** B.C. coast.
- 4c. **Data Acquisition Method(s)** Data are obtained from fishermen's harvest logs required as a condition of licence.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1977 - 1989.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** Microcomputer with SYMPHONY software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Confidential.
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** Biennial reports: Canadian Manuscript Reports in Aquatic Sciences.
8. **Languages** The report, database and background documents are in English.
9. **User Aids Available** A documentation binder has been prepared for internal use that can be viewed at the responsible organization's office, but it is not for public dissemination.
10. **Keywords** Abalone; British Columbia; Fisheries; Pacific; Shellfish
11. **Additional Information** None.

Arctic Industrial Activities

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A series of catalogues providing information and references to industrial activities in the marine Canadian Arctic.
- 2b. **Purpose of the Database** To provide a complete and reliable log of the major activities of offshore oil and gas development.
- 3a. **Name and Address of Responsible Organization** Data Assessment Division, Institute of Ocean Sciences, Department of Fisheries and Oceans, P.O. Box 6000, Sidney, B.C., V8L 4B2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Brian Smiley (604) 363-6551 FAX: (604) 363-6479
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - marine dredging
 - * company, dredge name and type, purpose
 - * start and stop dates, water depth, dump method, sediment type
 - * load and dump volumes
 - seismic surveys and well drilling
 - * proponent, well name, number, spud and release data
 - * access road and air strip requirements
 - * vehicles and major equipment
 - * well depth/survey distance
 - * drill mud components
 - chemical drill waste discharge
 - * well name, additives (LC50, type), date
 - * well status (dry, abandoned, suspended)
 - * drill rig type, water depth
 - * discharges
 - * contractor, operator
 - * drill mud
 - vessel and helicopter movements associated with industrial activities
- 4b. **Geographic Coverage** Marine Arctic Canada
- 4c. **Data Acquisition Method(s)** Literature review, record compilation and personal communications conducted on contract for the Department.
- 4d. **Geographic Unit(s) of Measurement** Individual activities referenced by latitude, longitude.
- 4e. **Period of Record** 1982 - present
- 4f. **Update Frequency** As new information is identified.
- 4g. **Database Hardware/Software Configuration** Paper file/published catalogue
Custom query databases for IBM-PC
- 4h. **Output Format(s) (tables, maps, etc.)** Reports with tables, maps, text
5. **Restrictions and Conditions** None
6. **Price Information** No charge for report
7. **Corresponding Printed Sources** Catalogues published in Canadian Data Report of Hydrography and Ocean Sciences No. 32
8. **Languages** Reports and database in English, French abstracts in reports
9. **User Aids Available** See introduction in catalogues
10. **Keywords** Arctic, Environmental restructuring, Exploration; Industry, Manne
11. **Additional Information** To date four catalogues have been prepared. These cover the following areas and topics (more are in progress): Marine dredging - Canadian Beaufort Sea Seismic/drilling activities - Canadian High Arctic Drill waste discharges - Canadian Arctic Vessel/aircraft traffic - Canadian Beaufort Sea

British Columbia and Yukon Stream Information Summary System (SISS)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A regional database providing summary level fish and fish habitat data for streams in B.C. and Yukon.
- 2b. **Purpose of the Database** The database was developed under the Federal/Provincial Fish Habitat Inventory and Information Program to document existing information on streams. The database can be used for:
 - initial screening of habitat related referrals;
 - providing an overview of production potential for stock management purposes;
 - selecting streams for enhancement, restoration or management activities;
 - identifying streams for research activities;
 - providing fish habitat information to agencies, companies and the public.
- 3a. **Name and Address of Responsible Organization** Coordination, Restoration and Inventory Unit, Habitat Management Division, Fisheries Branch, Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C., V6B 5G3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Mr. Peter Delaney (604) 666-2410 Mr. Bruce Reid (604) 666-7015
 Ms. Kathy Pontus (604) 666-6683
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - stream location description, gradient, obstructions and barriers, flow
 - fish distribution, salmon escapements, salmon life history timing
 - enhancement and management activities
 - land use, water use and water quality activities
 - fish production potential, constraints and comments
 - bibliography
- 4b. **Geographic Coverage** B.C. and Yukon.
- 4c. **Data Acquisition Method(s)** Information obtained from federal and provincial fisheries staff, local residents and a variety of literature sources including: consultants reports, personal memos, and Department of Fisheries and Oceans and B.C. Ministry of Environment reports and files. Escapement information obtained from the Salmon Escapement Data System (SEDS).
- 4d. **Geographic Unit(s) of Measurement** Individual streams and tributaries, Department of Fisheries and Oceans, subdistrict management units.
- 4e. **Period of Record** 1953 - present.
- 4f. **Update Frequency** Annually, as required.
- 4g. **Database Hardware/Software Configuration** DEC VAX 8530 minicomputer and INGRES relational database software, accessible by terminal or microcomputer with terminal emulation software.
- 4h. **Output Format(s) (tables, maps, etc.)** Individual reports for each stream consisting of 13 screens of information; hard copy report of same with references.
5. **Restrictions and Conditions** No restrictions for examining database; restricted access for updating and adding information.
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** Stream Summary Catalogues are being published, which contain SISS reports for all streams on a DFO subdistrict basis, along with tables of salmon escapement data and Stream Summary Maps (1:50,000 NTS maps).
8. **Languages** Database and reports are available in English only.
9. **User Aids Available** A user's manual and brief user guides are available.
10. **Keywords** British Columbia; Fish; Habitats; Rivers; Salmon; Yukon.
11. **Additional Information** Information for 95% of DFO subdistricts have been entered in the database. This represents over 3,200 streams. A total of 25 out of 48 catalogues have been published to date. Hard copy individual stream reports are available on request.

British Columbia Herring Data

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological data on herring and herring spawning areas for B.C.
- 2b. **Purpose of the Database** To collect data for herring stock assessment and management.
- 3a. **Name and Address of Responsible Organization** Herring Division, Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Ms. Vivian Haiste (604) 756-7205 Mr. Jake Schweigert (604) 756-7203
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - fish catch data
 - age, length, sex, maturity, weight
 - location
 - gear type
 - date
 - spawning data
 - date
 - spawning ground location
 - area (length, width)
 - egg density
- 4b. **Geographic Coverage** B.C.
- 4c. **Data Acquisition Method(s)** Research cruises, catch sampling at catch landing points, field surveys.
- 4d. **Geographic Unit(s) of Measurement** 2,500 localities along the coast.
- 4e. **Period of Record** 1950 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** MICROVAX with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Two annual reports: *Summary of B.C. Herring Sampling Data*; *Stock Assessments for B.C. Herring and Forecasts of the Potential Catch*.
8. **Languages** Database and reports are in English.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Fish; Fisheries; Herring.
11. **Additional Information** This database is on-line for use by Department of Fisheries and Oceans personnel, but it is not set up for public on-line access.

**British Columbia Prawn and Shrimp
Commercial Sampling Database**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on size and sex of shrimp and prawns caught off the coast of B.C.
- 2b. **Purpose of the Database** To supply data for predicting maximum sustainable yield and regulating the fisheries.
- 3a. **Name and Address of Responsible Organization** Shellfish Section, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. John Fulton (604) 756-7018
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (shrimp, prawn), sex
 - length-frequency
 - sampling date
 - location (statistical areas, subareas, fishing location)
 - daily catch
 - effort, gear description
- 4b. **Geographic Coverage** Offshore B.C.
- 4c. **Data Acquisition Method(s)** Onboard vessel sampling for prawns; onshore or processor sampling for shrimp.
- 4d. **Geographic Unit(s) of Measurement** Statistical areas, subareas, fishing location
- 4e. **Period of Record** 1979 - present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** VAX computer with DATATRIEVE software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Effort data are confidential for individual fishermen or for summary data where three or fewer fishermen are involved
6. **Price Information** Not yet determined.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is only numbers.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Fisheries; Harvesting; Prawn; Shrimp; Shellfish
11. **Additional Information** None.

**British Columbia Recreational Fishing
Catch Statistics**

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Catch statistics for the B.C. sports fishery.
- 2b. **Purpose of the Database** To monitor and manage the sports fishery and prepare fish population reconstructions.
- 3a. **Name and Address of Responsible Organization** Statistics, Pacific Region, Department of Fisheries and Oceans, 555 West Hastings Street, Suite 410, Vancouver, B.C., V6B 5G3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Lia Bijsterveld (604) 666-6501
- 3c. **Access Mechanisms** Through the responsible organization; also available on-line
- 4a. **Variables Included (summarized if extensive)**
 - species (salmon, Pacific halibut, rockfish, lingcod)
 - catch (number of fish)
 - statistical area (29 units)
 - number of angler days
 - date (year, month)
- 4b. **Geographic Coverage** B.C.
- 4c. **Data Acquisition Method(s)** Creel surveys, logbooks, mail surveys
- 4d. **Geographic Unit(s) of Measurement** Statistical areas
- 4e. **Period of Record** 1952 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** VAX computer with INGRES database management system
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge for requests or on-line access
7. **Corresponding Printed Sources** Up until 1977, annual publication - *Salmon Sportsfishing Catch Statistics for B.C. Tidal Waters*. From 1979 - present, annual publication - *Recreational Mail Surveys Tidal Sport Fishing Diary Program and Visitors Sport Fishing Survey*. From 1983-present, annual publication - *Strait of Georgia Creel Survey Sport Fishery Statistics*
8. **Languages** Database and reports are in English
9. **User Aids Available** User manual for the recreational catch statistics database
10. **Keywords** British Columbia; Fisheries; Harvesting; Sport fishing
11. **Additional Information** None

British Columbia Shellfish Research Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Catch and catch effort data for the commercial prawn and shrimp fisheries of the coast of B.C.
- 2b. **Purpose of the Database** To document the shellfish fisheries and provide stock assessment data.
- 3a. **Name and Address of Responsible Organization** Shellfish Section, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. John Fulton (604) 756-7018
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location (statistical areas, sub areas, fishing location)
 - daily catch: species; weight
 - effort: catch/hour (shrimp); catch/trap (prawns)
 - gear description
- 4b. **Geographic Coverage** Offshore B.C.
- 4c. **Data Acquisition Method(s)** Fishermen's log books.
- 4d. **Geographic Unit(s) of Measurement** Statistical areas, sub areas, fishing location.
- 4e. **Period of Record** Prawn: 1980 - present. Shrimp: 1986 - present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** VAX computer with DATATRIEVE software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Effort data are confidential for individual fishermen or for summary data where three or fewer fishermen are involved.
6. **Price Information** Not yet determined.
7. **Corresponding Printed Sources** Data used in preparing annual report to the International Pacific Fisheries Commission.
8. **Languages** Database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Fisheries; Harvesting; Prawn; Shellfish; Shrimp.
11. **Additional Information**
 1. Post-1984 data are most comprehensive as reporting became compulsory that year.
 2. This database is used to augment the catch and effort databases held by the Statistics Branch, Pacific Region and provides more detail than the latter.

General Biological Data for the Pacific Coast (BISEL)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological data on individual groundfish sampled from commercial and research catches on the coast of B.C.
- 2b. **Purpose of the Database** To maintain a catalogue of groundfish samples that have been collected from research and commercial samples.
- 3a. **Name and Address of Responsible Organization** Statistics/Sampling Unit, Groundfish Division, Biological Sciences Branch, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mrs. Kathy Rutherford (604) 756-7171
- 3c. **Access Mechanisms** Through the responsible organization. Interactive Query Program available with permission of database manager.
- 4a. **Variables Included (summarized if extensive)**
 - date, vessel, location (area, region, locality)
 - species, number of specimens
 - gear type
 - sample type
- 4b. **Geographic Coverage** Coast of B.C.
- 4c. **Data Acquisition Method(s)** Samples collected in the field.
- 4d. **Geographic Unit(s) of Measurement** Special area codes unique to this investigation.
- 4e. **Period of Record** 1946, 1948-57, 1977, 1984, 1985.
- 4f. **Update Frequency** When time permits.
- 4g. **Database Hardware/Software Configuration** Custom programmed database manager in FORTRAN mounted on VAX/VMS system.
- 4h. **Output Format(s) (tables, maps, etc.)** Interactive screen query of sample catalogue and sample select program for downloading of selected sample data from tape.
5. **Restrictions and Conditions** Government has proprietary right to publications. Database is complicated enough that all queries should go through the database manager.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** No summary available. Background methodology on how samples were collected exists in a diverse collection of unpublished notes, working documents and secondary literature.
8. **Languages** Database is in English.
9. **User Aids Available** Unpublished user's document.
10. **Keywords** British Columbia; Fish; Fisheries; Groundfish.
11. **Additional Information** Database is incomplete. A general access program has been written (BISEL) for searching and selecting from a catalogue file. Selection of specific samples from the on-screen catalogue automatically creates a batch file that requests a tape job to dump selected samples from the library to on-line storage. Only a small proportion of the historical samples have been converted into the standardized formats. Most currently reside in a wide variety of data formats or have not been transcribed from original field summaries. There are additional numerous small biological databases which have been created for individual projects (i.e. tagging studies) which have little supporting documentation and are not in standardized formats.

Harbour Seals Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Population data for harbour seals along the B.C. coast and information on their diet.
- 2b. **Purpose of the Database** Data collected to determine the impact of harbour seals on commercial fisheries.
- 3a. **Name and Address of Responsible Organization** Marine Mammals Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Database Manager (604) 756-7253
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - number
 - diet
 - date and location (latitude, longitude)
- 4b. **Geographic Coverage** B.C.
- 4c. **Data Acquisition Method(s)** Aerial counts, observations, scat analysis
- 4d. **Geographic Unit(s) of Measurement** Animals located by latitude, longitude
- 4e. **Period of Record** 1986 - 1988.
- 4f. **Update Frequency** Continued monitoring is planned.
- 4g. **Database Hardware/Software Configuration** Data stored on magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Database is being checked for quality control.
6. **Price Information** No charge for reasonable requests.
7. **Corresponding Printed Sources** No reports yet prepared.
8. **Languages** Database is in English.
9. **User Aids Available** Documents for internal use have been prepared and are available for viewing.
10. **Keywords** Aquatic ecosystems; British Columbia; Mammals; Marine mammals; Seals
11. **Additional Information** None.

Historical Pacific Salmon Catch Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Catch volume and economic statistics for the commercial salmon fishery in B.C.
- 2b. **Purpose of the Database** To assess salmon stocks and carry out economic evaluations
- 3a. **Name and Address of Responsible Organization** Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Louis Lapi (604) 756-7144
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species
 - catch location and landing port
 - date (week)
 - total landed weight
 - number of fish
 - value
- 4b. **Geographic Coverage** B.C.
- 4c. **Data Acquisition Method(s)** Data from sales slips submitted under compliance by commercial fishermen
- 4d. **Geographic Unit(s) of Measurement** Statistical areas
- 4e. **Period of Record** 1951 - present.
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** MICROVAX with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charges
7. **Corresponding Printed Sources** B.C. Catch Statistics
8. **Languages** Reports are in English
9. **User Aids Available** *Historical Salmon Commercial Data System of the Fisheries Research Branch*, Department of Fisheries and Oceans (1983)
10. **Keywords** British Columbia; Fish; Fisheries; Pacific; Salmon
11. **Additional Information**
 1. Data prior to 1951 may be available on request although they are not part of this database
 2. A related data set on catch biological data (e.g. age composition, sex, length, weight), exists but is held by several branches of the Department and in various forms. See contact person for more details

In-season Pacific Salmon Catch Monitoring System

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A database of Canadian Pacific coast commercial trolling activities and salmon catches.
- 2b **Purpose of the Database** To provide in-season commercial salmon troll catch data for fisheries management.
- 3a **Name and Address of Responsible Organization** Biological Services Division, Fisheries Branch, Pacific Region, Department of Fisheries and Oceans, 400-555 West Hastings Street, Vancouver, B.C., V6B 5G3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Vic Palermo (604) 666-6592 Mr. Albert Wong (604) 327-1048
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - fish species (salmon)
 - location (statistical area)
 - average weight by species
 - troller fishing effort (number of boats) by statistical areas
 - catch per unit effort
 - boat count (by radar for west coast Vancouver Is.)
 - sales slip data
- 4b **Geographic Coverage** Canadian Pacific coast.
- 4c **Data Acquisition Method(s)** Data collected by Department.
- 4d **Geographic Unit(s) of Measurement** Statistical area.
- 4e **Period of Record** 1983 - present.
- 4f **Update Frequency** Weekly during fishing season.
- 4g **Database Hardware/Software Configuration** VAX - 8530 VMS with custom FORTRAN software; PASCAL program for microcomputers.
- 4h **Output Format(s) (tables, maps, etc.)** Data summary tables by species, period, fishing gear, year; detailed reports available on request.
- 5 **Restrictions and Conditions** On-line access by authorized personnel; data distribution restricted.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** No public documents; weekly data reports during fishing period for internal use only.
- 8 **Languages** The database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** British Columbia; Fisheries; Pacific; Salmon.
- 11 **Additional Information** None.

Killer Whales Database

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Data on the occurrence of individual killer whales along the coasts of B.C. and the state of Washington.
- 2b **Purpose of the Database** Data collected to determine trends in abundance, population dynamics, and social organization of killer whales for fisheries management purposes.
- 3a **Name and Address of Responsible Organization** Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Database Manager (604) 756-7253
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - individual whale identity by pod
 - date and location
 - film roll number
- 4b **Geographic Coverage** B.C. and Washington State.
- 4c **Data Acquisition Method(s)** Whales were identified from photographs.
- 4d **Geographic Unit(s) of Measurement** Whales and by latitude, longitude.
- 4e **Period of Record** 1974 - 1988.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Data stored on magnetic tape.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Data involves collection by many individuals other than government staff and some restrictions may be placed on general distribution of the complete file.
- 6 **Price Information** No charge for reasonable requests.
- 7 **Corresponding Printed Sources** Numerous reports available from responsible organization.
- 8 **Languages** Database is in English.
- 9 **User Aids Available** Documents for internal use have been prepared and are available for viewing.
- 10 **Keywords** Aquatic ecosystems; British Columbia; Biota; Killer whales; Mammals; Marine mammals; Pacific; Wildlife.
- 11 **Additional Information** None.

Northern Fur Seals Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A summary of biological data collected on northern fur seals during the pelagic phase of their lives as part of Canada's research contribution to the North Pacific Fur Seal Commission
- 2b. **Purpose of the Database** To monitor northern fur seal populations.
- 3a. **Name and Address of Responsible Organization** Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Database Manager (604) 756-7253
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - number
 - reproductive condition
 - diet
 - migration
 - age and sex composition of population
 - body growth
 - location (latitude, longitude)
- 4b. **Geographic Coverage** California to Alaska, 10-100 miles off shore
- 4c. **Data Acquisition Method(s)** Shooting, dissection and observation.
- 4d. **Geographic Unit(s) of Measurement** Sampling sites, referenced by longitude and latitude
- 4e. **Period of Record** 1958 - 1973.
- 4f. **Update Frequency** Discontinued after 1973.
- 4g. **Database Hardware/Software Configuration** Data stored on magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Data involved collection by the U.S.A. Permission is required from American authorities (National Marine Fisheries Service, Seattle) for use
6. **Price Information** No charge for reasonable requests.
7. **Corresponding Printed Sources** Numerous reports are available on request from the responsible organization.
8. **Languages** Database is in English.
9. **User Aids Available** Documents for internal use have been prepared and are available for viewing.
10. **Keywords** Aquatic ecosystems; Biota; Mammals; Marine mammals; Pacific; Seals, Wildlife.
11. **Additional Information** None.

Oceanographic Data Inventory System (ODIS)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** An interactive geo-referenced directory of data sets on physics, chemistry and biology for the marine environment of the Arctic and Pacific oceans
- 2b. **Purpose of the Database** To catalogue, appraise and summarize all existing data sets for environmental impact assessment, species habitat management, and regulatory review.
- 3a. **Name and Address of Responsible Organization** Institute of Ocean Sciences, Department of Fisheries and Oceans, Box 6000, Sidney, B.C., V8L 4B2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Brian Smiley (604) 363-6551 FAX: (604) 363-6479
Mr. Larry de March (204) 983-5186, Freshwater Institute, Department of Fisheries and Oceans, 501 University Cres., Winnipeg, Manitoba R3T 2N6
- 3c. **Access Mechanisms** Through either contact person; also available on-line
- 4a. **Variables Included (summarized if extensive)**
 - physical oceanography (water temperature/levels/waves, salinity, ocean currents)
 - chemical oceanography (nutrients, dissolved oxygen, pH, heavy metals, oil-related hydrocarbons, organochlorines, synthetic organics)
 - biological oceanography (bacteria, ice algae and plankton, zoobenthos, marine and anadromous fish, seals and other pinnipeds, whales)
 - data quality rating (5 point scale)
 - study details include: methods, measurements, investigator, date, document location
- 4b. **Geographic Coverage** Marine Arctic Canada and marine waters off B.C.
- 4c. **Data Acquisition Method(s)** Literature survey, personal communications
- 4d. **Geographic Unit(s) of Measurement** Each station and/or transect of all datasets are referenced by latitude, longitude
- 4e. **Period of Record** 1819 - present, database established in 1981
- 4f. **Update Frequency** As new data sets are identified
- 4g. **Database Hardware/Software Configuration** Data reside on an IBM compatible PC using DBASE III, uploaded to a MICROVAX II with ORACLE and custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Custom maps, tables, station and dataset reports
5. **Restrictions and Conditions** None concerning the information, a Tektronix or VT-type terminal and access code are required for on-line map plotting and access
6. **Price Information** No charge for requests from government departments; cost recovery policy for other users
7. **Corresponding Printed Sources** To date approximately 25 volumes have been published in the Canadian Data Report Series of Hydrography and Ocean Sciences. Data reports (summary from catalogue and reference source) and station reports (specific sites)
8. **Languages** Database and publications in English, catalogues have a French abstract
9. **User Aids Available** for on-line access
10. **Keywords** Arctic, British Columbia, Marine, Oceanography, Pacific
11. **Additional Information**
 1. Catalogue series initiated in 1979. Database provides on-line information concerning the data sets referenced in the catalogues
 2. Marine Arctic divided into 7 regions. Priority placed on the Beaufort Sea and Northwest Passage with data sets catalogued for physics, chemistry, plankton, zoobenthos, marine fishes, seals and whales. For the Queen Elizabeth Islands, physics, chemistry and marine fishes are covered, while for the Arctic Ocean, physics and chemistry are covered. For Baffin Bay, physics data are inventoried
 3. The B.C. West Coast is divided into 3 regions. For the Queen Charlotte Sound/Hecate Strait area, physics and chemistry are inventoried. For waters offshore to the 200 mile limit, physics data are covered
 4. Data set entries are cross-referenced to the corresponding catalogues
 5. Hard copies of many of the data sets are archived in Technical Records at the Institute of Ocean Sciences

Pacific Commercial Fish Catch Statistics System (CCSS)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Catch statistics for the Pacific Region (B.C., Yukon) commercial fishery.
- 2b **Purpose of the Database** To monitor and manage the commercial fishery and prepare fish population reconstructions.
- 3a **Name and Address of Responsible Organization** Statistics, Pacific Region, Department of Fisheries and Oceans, 555 West Hasting Street, Suite 410, Vancouver, B.C., V6B 5G3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. James Bjerring (604) 666-2630
- 3c **Access Mechanisms** Through the responsible organization; also available on-line.
- 4a **Variables Included (summarized if extensive)**
- detailed file: catch location, date; gear used; landings (day, species - number, weight of fish); processing (company, region, plant, herring disposal); effort (days fished); price, value; licence number (vessel, person)
 - summary file: year; species; gear used; location; landings; value
- 4b **Geographic Coverage** B.C., Yukon.
- 4c **Data Acquisition Method(s)** Fish slips (documents completed at first point of landing of commercial fishing vessels) submitted to the Department.
- 4d **Geographic Unit(s) of Measurement** Statistical areas, individual sites for herring.
- 4e **Period of Record** Summary - current year and previous year (1989 - 1988); detail 1982 - present.
- 4f **Update Frequency** Summary - constant; detail - weekly.
- 4g **Database Hardware/Software Configuration** VAX 785 with ADABAS database management system.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Vessel and company information released at discretion of Statistics section.
- 6 **Price Information** No charge for requests or on-line access.
- 7 **Corresponding Printed Sources** *B.C. Commercial Catch Statistics, 1982 - 1987.*
- 8 **Languages** Database and reports are in English.
- 9 **User Aids Available** User manual for data entry to summary file; system manual for database.
- 10 **Keywords** Aquatic ecosystems; Fish; Fisheries; Harvesting; Marine; Pacific.
- 11 **Additional Information** None.

Pacific Fisheries Licencing Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Data on vessels, fishermen and licences for fisheries on the west coast of Canada
- 2b **Purpose of the Database** To keep records on commercial vessels, fishermen and licences for use in licence issuance.
- 3a **Name and Address of Responsible Organization** Conservation and Protection Division, Fisheries Branch, Department of Fisheries and Oceans, 400-555 West Hastings Street, Vancouver, B.C., V6G 5B3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Stephen Brownlee (604) 666-2076
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
- vessel: length, tonnage, year built, name, ID number, propulsion
 - fishermen: name, address, telephone, sex, birth date, Indian band number
 - licences: holder, date issued, history, species, gear, quota
- 4b **Geographic Coverage** West coast of Canada.
- 4c **Data Acquisition Method(s)** Licencing information.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** 1968 to present.
- 4f **Update Frequency** When licence is issued.
- 4g **Database Hardware/Software Configuration** VAX computer with INGRES relational database system.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Some information is confidential and/or protected under the Privacy Act; on-line access is restricted to Department of Fisheries and Oceans personnel.
- 6 **Price Information** There is a charge for the annual directory; other charges will depend on the request.
- 7 **Corresponding Printed Sources** *Commercial Fishing Licence Directory* (annual). Other internal reports.
- 8 **Languages** The directory and database are in English.
- 9 **User Aids Available** *Licencing System User's Manual* (available to DFO staff only).
- 10 **Keywords** British Columbia; Fisheries; Fishing licences; Marine; Pacific.
- 11 **Additional Information**
1. Data prior to 1981 (back to 1968) are in paper files.
 2. Data prior to 1982 but after 1968 are accessible on record-by-record basis only.
 3. This is a very large database with over 60,000 person records and about 7,500 vessel records.

**Pacific Groundfish Catch
and Catch Effort Database**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Catch and effort (hours fished by gear) for catch for the domestic groundfish fishery along the coast of B.C.
- 2b. **Purpose of the Database** To document catch by species, area, time, and year with effort data for in-season quota management, stock assessment, and biological research.
- 3a. **Name and Address of Responsible Organization** Statistics/Sampling Unit, Groundfish Division, Biological Sciences Branch, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mrs. Kathy Rutherford (604) 756-7171
- 3c. **Access Mechanisms** Through Interactive Query Program with permission of database manager, owing to confidentiality of fishing information.
- 4a. **Variables Included (summarized if extensive)**
 - catch (weight in kg) by:
 - species
 - area
 - gear type
 - date, time
 - effort:
 - hours fished
 - gear type
 - number of devices
 - number of sets
- 4b. **Geographic Coverage** Coast of B.C.
- 4c. **Data Acquisition Method(s)** Mandatory logbooks, sales slips, and direct observations
- 4d. **Geographic Unit(s) of Measurement** Department of Fisheries statistical areas
- 4e. **Period of Record** 1956 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** Custom programmed indexed flat file with direct access on VAX computers with VMS operating system
- 4h. **Output Format(s) (tables, maps, etc.)** Interactive query for summary data or record select program for dumping of screened records.
5. **Restrictions and Conditions** Database contains individual skipper's fishing records and confidentiality must be ensured.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Overall catch records summarized in yearly reports as indicated below: Rutherford, K. L. (1988). "Catch and Effort Statistics of the Canadian Groundfish Fishery on the Pacific Coast in 1987". *Canadian Technical Report on Fisheries and Aquatic Sciences No. 1656*.
8. **Languages** All reports are in English.
9. **User Aids Available** Leaman, J. E. and J. M. Hamer (1985). "User's Guide to the Groundfish Catch Statistics Data System of the Fisheries Research Branch, Pacific Region". *Canadian Technical Report on Fisheries and Aquatic Sciences No. 1395*
10. **Keywords** British Columbia; Fish; Fish populations; Fisheries; Groundfish; Harvesting; Pacific.
11. **Additional Information** None.

Pacific Hail Catch (Salmon) Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A database containing hailed catch statistics for all salmon species for the North Coast of B.C.
- 2b. **Purpose of the Database** Data are used by Department personnel for salmon fishery management.
- 3a. **Name and Address of Responsible Organization** I.T.S.D., Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C., V6B 5G3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Ron Goruk, Department of Fisheries and Oceans, 202-417 West 2nd Ave., Prince Rupert, B.C. V8J 1G8 (604) 624-0460
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - total catch by salmon species
 - location (management unit, statistical area)
 - time period
 - vessels by gear type
 - average catch per unit effort
- 4b. **Geographic Coverage** North coast of B.C.
- 4c. **Data Acquisition Method(s)** Collected by fisheries officers during in-season management of salmon commercial gill net and seine fisheries.
- 4d. **Geographic Unit(s) of Measurement** Statistical areas, management units
- 4e. **Period of Record** 1962 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Microcomputer with modem linked to VAX mainframe in Vancouver or through data terminals
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Updating and direct access to database is restricted to management biologists
6. **Price Information** Unknown
7. **Corresponding Printed Sources** No periodic reports prepared, occasional reports or tables prepared as required
8. **Languages** The database is in English
9. **User Aids Available** None
10. **Keywords** British Columbia; Fish catch; Fisheries; Pacific; Salmon
11. **Additional Information** The database is extremely important for in-season salmon management

Pacific Hake Observer Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Database contains biological and catch and effort data for Pacific hake and incidentally caught species.
- 2b. **Purpose of the Database** Management of the fishery and assessment of the stock.
- 3a. **Name and Address of Responsible Organization** Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Mark Saunders (604) 756-7154
Mr. Barry Ackerman, Offshore Division Pacific Region, Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C. (604) 666-39912
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - hake catch (observer, vessel estimates)
 - incidental species catch
 - location, time, date
 - species composition of haul
 - salmon (numbers, weight)
 - biological data (length, sex, maturity, aging structures)
- 4b. **Geographic Coverage** 48° - 50° N latitude, 124° - 128° W longitude.
- 4c. **Data Acquisition Method(s)** Through observers aboard ship and directly from vessels at port.
- 4d. **Geographic Unit(s) of Measurement** Catch locations referenced by latitude, longitude.
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX; data are stored in ASCII files and analysed using SAS.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** The raw data are restricted to Department personnel, summaries are generally available.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** No periodic reports are planned.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Fish; Fisheries; Hake; Pacific.
11. **Additional Information** The database is being transferred to the INGRES relational database management system.

Pacific Native Food Fishery

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on the native fishery for the Pacific region of Canada.
- 2b. **Purpose of the Database** Data used in land claim settlement and fishery reconstruction.
- 3a. **Name and Address of Responsible Organization** Statistics, Pacific Region, Department of Fisheries and Oceans, 555 West Hastings Street, Suite 410, Vancouver, B.C., V6B 5G3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Lia Bijsterveld (604) 666-6501
- 3c. **Access Mechanisms** Through the responsible organization; also available on-line.
- 4a. **Variables Included (summarized if extensive)**
 - species (salmon, Pacific halibut, rockfish, lingcod, pacific cod)
 - catch (number of fish)
 - location (place name)
 - date (year, week)
 - statistical area (29 units)
 - Indian band
 - gear used
 - number of fishing permits issued
- 4b. **Geographic Coverage** Pacific region - B.C. and Yukon.
- 4c. **Data Acquisition Method(s)** Field-based fisheries officers.
- 4d. **Geographic Unit(s) of Measurement** Statistical areas.
- 4e. **Period of Record** 1951 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX computer with INGRES database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for requests or on-line access.
7. **Corresponding Printed Sources** "The Indian Food Fishery in the Pacific Region: Salmon Catches 1951-1984". *Canadian Data Report of Fisheries and Aquatic Sciences No. 627. Annual Pacific Region Indian Food Fishery Catch Statistics* 1988, 1987, 1985-1986.
8. **Languages** Database and reports are in English.
9. **User Aids Available** User manual for the native food fishery database.
10. **Keywords** British Columbia; Fisheries; Harvesting; Native fishery; Salmon.
11. **Additional Information** The amount and level of information provided varies for different time periods.

Pacific Salmon Escapement Data System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A database giving details of Pacific salmon runs in rivers of B.C.
- 2b. **Purpose of the Database** To assess stocks and habitat for Pacific salmon.
- 3a. **Name and Address of Responsible Organization** Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Louis Lapi (604) 756-7144
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species
 - river
 - observation site location
 - date (start, peak, end of run)
 - number of fish
- 4b. **Geographic Coverage** B.C.
- 4c. **Data Acquisition Method(s)** Annual monitoring and project specific data collected by fisheries officers in the field.
- 4d. **Geographic Unit(s) of Measurement** About 1,500 sites monitored
- 4e. **Period of Record** 1930's - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for reasonably sized requests
7. **Corresponding Printed Sources** Numerous articles have been published in scientific journals and the technical and manuscript series of the Department.
8. **Languages** Reports are in English; database is mostly numbers
9. **User Aids Available** On-line help and the technical manuals are available
10. **Keywords** Aquatic ecosystems; British Columbia; Fisheries; Salmon
11. **Additional Information** There are plans to enter older historical data in the database

Pacific Salmon Mark Recovery Program Database

1. **Datafile Name(s)** Release, Recovery, numerous other files
- 2a. **Summary Description of Contents** Data from a mark-recovery program for Pacific salmon on the west coast of North America
- 2b. **Purpose of the Database** To assess salmon stocks, evaluate hatchery programs and carry out Canada- United States interception analysis as outlined under a joint treaty.
- 3a. **Name and Address of Responsible Organization** Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Louis Lapi (604) 756-7144
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species (chinook, coho, chum, pink, sockeye salmon, steelhead trout)
 - location (release, recovery)
 - year
 - tag code
 - length, weight, maturity, (at release, at recovery)
 - number tagged and number released
- 4b. **Geographic Coverage** West coast of North America; California to Alaska (release data); B.C. (recovery data)
- 4c. **Data Acquisition Method(s)** Fish tagged by fisheries officers, tags returned voluntarily by sports fishermen; fisheries officers collect tags from commercial catches
- 4d. **Geographic Unit(s) of Measurement** Catch regions, statistical areas and subareas
- 4e. **Period of Record** Release data. 1968 - present Recovery data Canadian freshwater 1973 - present; Canadian saltwater 1975 - present
- 4f. **Update Frequency** Daily
- 4g. **Database Hardware/Software Configuration** MICROVAX with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables; customized report writer
5. **Restrictions and Conditions** None
6. **Price Information** No charge for reasonably sized requests
7. **Corresponding Printed Sources** Numerous publications have been released in scientific journals and in the Technical and Manuscript Report Series of the Department
8. **Languages** Reports are in English, database is mostly numbers
9. **User Aids Available** On-line help and technical manuals are available
10. **Keywords** Aquatic ecosystems, British Columbia; Fish, Fish populations; Fisheries, Pacific; Salmon, United States
11. **Additional Information**
 1. The tag code is linked to information in over 100 fields, it is one of the most comprehensive fisheries databases in the world
 2. A database on fin-clipped pink and chum salmon is in preparation
 3. There are several other related databases including the Historical Salmon Catch Database (commercial), and the Salmon Escapement Data System

Salmonid Enhancement Planning Information Control Database (EPIC)

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A regional database containing summary cost and fish production data from all Salmonid Enhancement Program (SEP) projects.
- 2b **Purpose of the Database** To facilitate planning and evaluation of SEP activities, and to estimate future catches and benefits from SEP projects.
- 3a **Name and Address of Responsible Organization** Salmonid Enhancement Program, Program Coordination and Assessment Division, Pacific Region, Department of Fisheries and Oceans, 400-555 West Hastings Street, Vancouver, B.C., V6B 5G3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Sue Lehman (604) 666-2039 Mr. Greg Steer (604) 666-0115
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - fish production (eggs taken, juveniles released, adults produced)
 - economic (construction and operating costs, native and non-native employment)
 - fishery harvest rates (commercial and sport catches of enhanced salmonids)
- 4b **Geographic Coverage** B.C. and Yukon.
- 4c **Data Acquisition Method(s)** Compiled from hatchery statistics and regional catch databases.
- 4d **Geographic Unit(s) of Measurement** Individual projects, standard fisheries statistical area
- 4e **Period of Record** 1976 - present (data exists back to 1969 for some pre-SEP facilities).
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** VAX 8530 using INGRES database management system.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, reports.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge for reasonably sized requests.
- 7 **Corresponding Printed Sources** SEP Annual Report.
- 8 **Languages** Database and reports are in English.
- 9 **User Aids Available** A user's manual has been prepared and can be obtained from the responsible organization's office.
- 10 **Keywords** British Columbia; Fisheries; Pacific; Salmon.
- 11 **Additional Information** None.

Sea Lions Database

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Data on the population of sea lions along the coast of B.C. and information on their diet.
- 2b **Purpose of the Database** Data collected to determine the impact of sea lions on commercial fisheries in B.C.
- 3a **Name and Address of Responsible Organization** Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Database Manager (604) 756-7253
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - species (California, Steller's)
 - abundance
 - movements
 - diet
 - date and location (latitude, longitude)
- 4b **Geographic Coverage** B.C.
- 4c **Data Acquisition Method(s)** Aerial counts, observations, scat analysis.
- 4d **Geographic Unit(s) of Measurement** Animals located by latitude, longitude.
- 4e **Period of Record** Varying years from 1914 to 1988.
- 4f **Update Frequency** Continued monitoring is planned.
- 4g **Database Hardware/Software Configuration** Data are stored on magnetic tape.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Database is being checked for quality control and would not be available for viewing.
- 6 **Price Information** No charge for reasonable requests.
- 7 **Corresponding Printed Sources** Reports available from responsible organization.
- 8 **Languages** Database is in English.
- 9 **User Aids Available** Document for internal use have been prepared and are available for viewing.
- 10 **Keywords** Aquatic ecosystems; Biota; British Columbia; Mammals; Marine mammals; Pacific; Sea lions; Wildlife.
- 11 **Additional Information** None.

FISHERIES AND OCEANS

Ontario and Headquarters

<i>Fisheries and Oceans Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
FISH PLANT REGISTRATION DATABASE	Mr. Ross Thompson (613) 990-0156	132
FISHERIES CATCH AND EFFORT STATISTICS	Mr. Tim Hsu (613) 993-2311	132
FISHERIES LICENCING DATABASE	Mr. Tim Hsu (613) 993-2311	133
FISHERIES PRODUCTION STATISTICS	Mr. Tim Hsu (613) 993-2311	133
GREAT LAKES BIOLOGICAL TISSUE ARCHIVE	Dr. W. H. Hyatt (416) 336-4861	134
GREAT LAKES CONTAMINANTS SURVEILLANCE PROGRAM	Dr. D. M. Whittle (416) 336-4565	134
OCEAN	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	135
PHYTOPLANKTON DYNAMICS IN THE GREAT LAKES	Dr. M. Munawar (416) 336-4867	135
SURVEY OF ATLANTIC AND PACIFIC FISHERMEN DATABASE	Mr. Kieth W. Brickley (613) 993-2264	136
SURVEY OF PACIFIC FISHERIES COSTS AND EARNINGS	Mr. Kieth W. Brickley (613) 993-2264	136
SURVEY OF SPORT FISHING DATABASE	Mr. Kieth W. Brickley (613) 993-2264	137
TIDES AND WATER LEVELS	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	137
WAVES	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	138

Fish Plant Registration Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on registered fish processing plants that carry out international or interprovincial trade in Canada.
- 2b. **Purpose of the Database** To maintain on inventory of plants and determine on-site inspection requirements.
- 3a. **Name and Address of Responsible Organization** Statistics Unit, Department of Fisheries and Oceans, 11th Floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Ross Thompson (613) 990-0156
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - processing plant (name, location)
 - operation type; registration type
- 4b. **Geographic Coverage** National, plants that conduct interprovincial or international trade.
- 4c. **Data Acquisition Method(s)** Annual submissions from regional offices.
- 4d. **Geographic Unit(s) of Measurement** Data referenced by community.
- 4e. **Period of Record** 1975 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Variable, depending on region of origin.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Data on individual plants are not available.
6. **Price Information** Depends on request.
7. **Corresponding Printed Sources** *Annual Statistics Review*.
8. **Languages** Information from Quebec is in French; other areas are in English.
9. **User Aids Available** See contact.
10. **Keywords** Fish; Fish plants; Fisheries.
11. **Additional Information** More detailed and up-to-date information is available from the regional offices.

Fisheries Catch and Effort Statistics

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Fish catches and fishing effort for commercial fisheries in Canada.
- 2b. **Purpose of the Database** To monitor harvesting activities, analyse trends and predict socio-economic trends for commercial fisheries management.
- 3a. **Name and Address of Responsible Organization** Statistics Unit, Department of Fisheries and Oceans, 11th floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Tim Hsu (613) 993-2311
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - catch and landings (species, weight)
 - catch location (statistical area, NAFO unit areas, lake)
 - effort (fishing days, number of traps, etc.)
 - gear
 - prices
 - landing port
- 4b. **Geographic Coverage** Atlantic and Pacific coasts, inland provinces.
- 4c. **Data Acquisition Method(s)** Data are collected and provided by Departmental regional offices.
- 4d. **Geographic Unit(s) of Measurement** Variable depending upon region.
- 4e. **Period of Record** Late 1960's - present.
- 4f. **Update Frequency** Monthly, annually.
- 4g. **Database Hardware/Software Configuration** Varies depending on source region.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Raw data are not available; summaries are available.
6. **Price Information** Depends on request.
7. **Corresponding Printed Sources** Annual - *Annual Statistical Review*. Monthly - *Canadian Fisheries Landings*.
8. **Languages** All publications are bilingual; Quebec region database is in French, the rest of the database is in English.
9. **User Aids Available** See contact.
10. **Keywords** Atlantic; Fish; Fish catch; Fish populations; Fisheries; Freshwater; Marine; Pacific.
11. **Additional Information** None.

Fisheries Licencing Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Numbers of vessels and fishermen and related licencing data for the Atlantic and Pacific fisheries of Canada.
- 2b. **Purpose of the Database** For the administration of fishermen and vessel registration, to monitor trends and predict socio-economic impacts.
- 3a. **Name and Address of Responsible Organization** Statistics Unit, Department of Fisheries and Oceans, 11th Floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Tim Hsu (613) 993-2311
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - vessels: number; home/landing port; length, tonnage; market value; gear
 - fishermen: number; home/landing port; licence status
- 4b. **Geographic Coverage** Atlantic and Pacific coasts.
- 4c. **Data Acquisition Method(s)** Data are collected and provided by Departmental regional offices.
- 4d. **Geographic Unit(s) of Measurement** Data are referenced by community
- 4e. **Period of Record** Late 1970's - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Varies depending upon source region.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Raw data are not available; summaries are available
6. **Price Information** Variable, depending upon request.
7. **Corresponding Printed Sources** *Annual Statistics Review*.
8. **Languages** Information from Quebec is in French; other areas in English
9. **User Aids Available** See contact.
10. **Keywords** Atlantic; Fisheries; Fishing licences; Pacific; Vessels.
11. **Additional Information** None.

Fisheries Production Statistics

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Production, stock volume and value of different commercial fish species and product forms in Canada
- 2b. **Purpose of the Database** To monitor production and stocks of fishery products, analyze trends, predict socio-economic impacts and guide fisheries management
- 3a. **Name and Address of Responsible Organization** Statistics Unit, Department of Fisheries and Oceans, 200 Kent Street, 11th Floor, Ottawa, Ontario, K1A 0E6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Tim Hsu (613) 993-2311
- 3c. **Access Mechanisms** Through the responsible agency
- 4a. **Variables Included (summarized if extensive)**
 - monthly production and stocks (weight)
 - species
 - product form (frozen, canned, smoked, salted)
 - annual volume and value
 - species
 - product form
 - plant location (community), name
- 4b. **Geographic Coverage** Atlantic and Pacific coasts
- 4c. **Data Acquisition Method(s)** The data are collected and provided by Department regional offices on the east coast and by the province of B.C. on the west coast
- 4d. **Geographic Unit(s) of Measurement** Data are referenced by individual plants within communities
- 4e. **Period of Record** Early 1970's - present
- 4f. **Update Frequency** Monthly, annually
- 4g. **Database Hardware/Software Configuration** Varies depending upon source region
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Raw data not available, summaries are available
6. **Price Information** Depends on the request size
7. **Corresponding Printed Sources** Monthly - *Canadian Fisheries Products and Inventories* Annually - *Canadian Fisheries Annual Statistical Review*
8. **Languages** Database for Quebec is in French; other regions are in English, all publications are bilingual
9. **User Aids Available** See contact
10. **Keywords** Atlantic; Fish; Fisheries, Pacific
11. **Additional Information** None

Great Lakes Biological Tissue Archive

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on analyses and storage of fish specimens from the Canadian Great Lakes held by the Department of Fisheries and Oceans.
- 2b. **Purpose of the Database** To maintain a record of fish tissue specimens from the Great Lakes for contaminant analysis.
- 3a. **Name and Address of Responsible Organization** Bayfield Institute, Great Lakes Laboratory for Fisheries and Aquatic Sciences, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. W. H. Hyatt (416) 336-4861
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - quantity of material
 - storage and analysis history
 - specimen detail (age, weight, sex, length, species)
 - collection location (latitude, longitude) and date
- 4b. **Geographic Coverage** Lakes Erie, Ontario, Huron, Superior.
- 4c. **Data Acquisition Method(s)** Samples supplied by the Ontario government and Department of Fisheries and Oceans personnel.
- 4d. **Geographic Unit(s) of Measurement** Individual samples referenced by latitude and longitude.
- 4e. **Period of Record** 1977 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, graphs.
5. **Restrictions and Conditions** An application for information access must be submitted.
6. **Price Information** No charge for sample use.
7. **Corresponding Printed Sources** A hard copy of the database is available
8. **Languages** Database and documents are in English.
9. **User Aids Available** Department of Fisheries and Oceans, Great Lakes Laboratory of Fisheries and Aquatic Sciences, biological tissue archive (user's manual).
10. **Keywords** Biota; Biotic response; Contaminants; Fish; Great Lakes; Tissue samples.
11. **Additional Information** Only samples held at the laboratory are included in the database.

Great Lakes Contaminants Surveillance Program

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on contaminant levels in fish from the Canadian Great Lakes (Ontario, Erie, Huron, Superior).
- 2b. **Purpose of the Database** To monitor contaminant levels in fish from the Great Lakes for fisheries management purposes.
- 3a. **Name and Address of Responsible Organization** Bayfield Institute, Great Lakes Laboratory for Fisheries and Aquatic Sciences, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. D. M. Whittle (416) 336-4565
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - collection date and location (latitude, longitude)
 - species (12 included, e.g. lake trout, smelt)
 - size, age, sex
 - trace organics (whole body concentration)
 - heavy metals (whole body concentration)
- 4b. **Geographic Coverage** About 10,000 records from Lakes Ontario, Erie, Huron, Superior.
- 4c. **Data Acquisition Method(s)** Samples supplied by the Ontario government and Department of Fisheries and Oceans personnel.
- 4d. **Geographic Unit(s) of Measurement** Individual samples.
- 4e. **Period of Record** 1977 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, graphs.
5. **Restrictions and Conditions** Some information is sensitive; restrictions will depend on the request and are determined by the contact person.
6. **Price Information** No charge for data.
7. **Corresponding Printed Sources** Biennial reports are produced by the Great Lakes Water Quality Board of the International Joint Commission office in Windsor, Ontario (see 11).
8. **Languages** Database and documents are in English.
9. **User Aids Available** None.
10. **Keywords** Biota; Biotic response; Contaminants; Fish; Great Lakes; Residues.
11. **Additional Information** None.

OCEAN

1. **Datefile Name(s)** Bathythermograph, Nansenbottle, Conductivity, Temperature, Depth sensor, Drifting buoys, Temperature and Salinity profiles, Daily seawater files
- 2a. **Summary Description of Contents** Contains physical oceanographic observations made in Canada using various sampling instruments.
- 2b. **Purpose of the Database** It is used to examine historical trends in oceanographic variables or in pure research on oceanographic phenomena.
- 3a. **Name and Address of Responsible Organization** Marine Environmental Data Service, Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J. Ron Wilson (613) 990-0264
Mr. Jean Gagnon (613) 990-0260
- 3c. **Access Mechanisms** Data are usually available through the contact organization but in special cases are accessible by direct on-line access.
- 4a. **Variables Included (summarized if extensive)**
 - temperature and salinity
 - currents
 - nutrients (nitrates, nitrites, total phosphorus, silicates)
 - dissolved oxygen
- 4b. **Geographic Coverage** In general, the area covered is 35°-90° N latitude, 40°-180° W longitude. For drifting buoy data, the coverage is global. Data are not maintained for the fresh waters of Canada.
- 4c. **Data Acquisition Method(s)** Data collected by Department regional offices, international research vessels, universities, and private industry
- 4d. **Geographic Unit(s) of Measurement** Data are accessible for user-selected areas, time periods and variables. Geographic information is by latitude and longitude
- 4e. **Period of Record** Late 1800's - present; over 50% of the data are from 1945 - present.
- 4f. **Update Frequency** The longest period between updates is one month; data are normally updated as received.
- 4g. **Database Hardware/Software Configuration** VAX 6320 computer with FORTRAN software; data are available in ASCII files, on diskettes and on magnetic tape
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** All data are public information. Occasionally, some data will have a proprietary period, usually less than 2 years after data collection. During this period the data originator is the only one who has access to the data
6. **Price Information** MEDS operates on a tiered Departmental cost recovery policy. Users working with MEDS in joint programs, or those in DFO are given free access. Other government departments are charged for materials. Private sector clients pay the sum of direct and indirect costs as defined in the Financial Administration Act
7. **Corresponding Printed Sources** None (the on-line system is very user-friendly)
8. **Languages** MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data
9. **User Aids Available** MEDS maintains a user's guide of data and data products which is available upon request.
10. **Keywords** Atlantic; Marine; Oceanography; Pacific
11. **Additional Information** None

Phytoplankton Dynamics in the Great Lakes

1. **Datefile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on phytoplankton dynamics in the five Great Lakes
- 2b. **Purpose of the Database** To evaluate water quality conditions and develop early warning indicators of pollution
- 3a. **Name and Address of Responsible Organization** Ecotoxicity Division, Great Lakes Region, Department of Fisheries and Oceans, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. M. Munawar (416) 336-4867
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species and location (latitude, longitude)
 - biomass
 - size composition
 - primary productivity
 - chlorophyll
- 4b. **Geographic Coverage** Great Lakes
- 4c. **Data Acquisition Method(s)** Monthly monitoring of 30-50 stations per lake for various years
- 4d. **Geographic Unit(s) of Measurement** Sampling sites located by latitude and longitude
- 4e. **Period of Record** 1969 - present
- 4e. **Update Frequency** Monthly, annually
- 4g. **Database Hardware/Software Configuration** CYBER mainframe and IBM microcomputer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, graphs
5. **Restrictions and Conditions** Department personnel have first publication rights
6. **Price Information** No charge
7. **Corresponding Printed Sources** Numerous publications, see contact person
8. **Languages** Database and publications are in English
9. **User Aids Available** None
10. **Keywords** Aquatic ecosystems, Biota, Biotic response, Great Lakes, Ontario, Phytoplankton; Plankton
11. **Additional Information**
 1. In addition to this database, some additional data on phytoplankton and zooplankton in Lake Ontario (two stations monitored weekly through the summer since 1981) are being collected by Dr. Ora Johansson at the Bayfield Institute, Department of Fisheries and Oceans, Burlington
 2. A book describing phytoplankton dynamics of the Great Lakes is in preparation

Survey of Atlantic and Pacific Fishermen Database

1. **Datafile Name(s)** Atlantic Fishermen File, Pacific Fishermen File.
- 2a. **Summary Description of Contents** Data on activities, income, education and socio-economics associated with commercial fishermen.
- 2b. **Purpose of the Database** To assess the well-being of fishermen in the ocean fisheries.
- 3a. **Name and Address of Responsible Organization** Surveys Unit, Department of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Kieth W. Brickley (613) 993-2264
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - fishermen (age, sex, education, income level, household characteristics)
 - fishing activity by fish species
 - activity by vessel type
 - most important species for income
 - expenses of vessel owners
 - other income by source
 - location (community)
- 4b. **Geographic Coverage** Pacific and Atlantic Oceans.
- 4c. **Data Acquisition Method(s)** Personal and telephone interviews (90-95% response) conducted by Statistics Canada.
- 4d. **Geographic Unit(s) of Measurement** Data referenced by community.
- 4e. **Period of Record** 1984 - Atlantic.
1985 - Pacific.
- 4f. **Update Frequency** Every three years as of 1988.
- 4g. **Database Hardware/Software Configuration** IBM computer with SPSS 9.0 software; data available on diskette in ASCII format or on magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charges for reasonably sized requests.
7. **Corresponding Printed Sources** *Survey of Atlantic Fishermen, 1984. Survey of Pacific Fishermen, 1985.*
8. **Languages** The database is in English; the reports are in English and French.
9. **User Aids Available** None.
10. **Keywords** Atlantic; Fisheries; Pacific.
11. **Additional Information**
 1. Written requests are required to obtain data.
 2. Publications are available by telephoning or writing the DFO Communications or Surveys unit.

Survey of Pacific Fisheries Costs and Earnings

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A database on the economic performance of commercial Pacific fishing vessels and the viability of activity by fishery.
- 2b. **Purpose of the Database** To assess Departmental policies and programs.
- 3a. **Name and Address of Responsible Organization** Surveys Units, Department of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Kieth W. Brickley (613) 993-2264
- 3c. **Access Mechanisms** Through responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - vessel owner (age, sex, ethnicity)
 - vessel activity by fishery
 - costs and earnings by fishery
 - licencing
 - investment over 8 year period
 - debt load by creditor
 - viability measures
 - performance measures
 - cash flow
 - residence location
- 4b. **Geographic Coverage** Pacific coast of Canada.
- 4c. **Data Acquisition Method(s)** Personal interviews conducted by Statistics Canada (90% response rate).
- 4d. **Geographic Unit(s) of Measurement** Data referenced by coastal sub-area of residence location.
- 4e. **Period of Record** 1985, 1988.
- 4f. **Update Frequency** Every three years.
- 4g. **Database Hardware/Software Configuration** IBM computer with SPSS 9.0 software; data in ASCII format, available on diskette or magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Limited access to lower levels of aggregation; restricted data on company vessels
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** *Costs and Earnings of the Pacific Salmon and Herring Fleets (1989).*
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** British Columbia; Fisheries; Pacific.
11. **Additional Information**
 1. Written requests for data output are required.
 2. Publications have very limited print runs (500 copies).

Survey of Sport Fishing Database

1. **Datafile Name(s)** One for each province and territory
- 2a. **Summary Description of Contents** A national database of detailed information on angling in each jurisdiction including catch, activity, expenditures, investments and attitudes as well as socio-economic information.
- 2b. **Purpose of the Database** To provide benchmark management data for assessing the resource and economic impacts.
- 3a. **Name and Address of Responsible Organization** Surveys Unit, Department of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario, K1A 0E6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Kieth W. Brickle (613) 993-2264
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - anglers (age, sex, number, residence) and activity (number of days)
 - harvest (number of fish, species, weight) location
 - consumption (fish weight)
 - personal assessment (attitude, performance)
 - non-resident trip details (number of trips, days, accommodation)
 - investment, expenditures and willingness to pay
- 4b. **Geographic Coverage** National, including Pacific tidal waters
- 4c. **Data Acquisition Method(s)** Mail surveys (60-79% response rate); pre-screened populations in areas without resident licensing.
- 4d. **Geographic Unit(s) of Measurement** Data referenced by a variety of units depending upon region.
- 4e. **Period of Record** 1975, 1980, 1985.
- 4f. **Update Frequency** Every five years.
- 4g. **Database Hardware/Software Configuration** IBM computer with SPSS 9.0 software; selected data available on diskette in ASCII format; all data stored on magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for reasonably sized requests
7. **Corresponding Printed Sources** Reports are prepared every five years for each region Survey of Sport Fishing in (province/territory)
8. **Languages** Data from Quebec are in French and the remainder in English, reports are available in English and French.
9. **User Aids Available** None
10. **Keywords** Anglers; Fish; Fisheries; Sport fishing.
11. **Additional Information**
 1. Direct access to the database is restricted to Departmental accounts at STM systems (formerly CSG) in Ottawa.
 2. A written request is required for data; costs for special runs are very high due to the size of the database
 3. Publications are available by request in writing or by phone; the mailing list is updated each month and salient reports are automatically sent to previous users

Tides and Water Levels

1. **Datafile Name(s)** Tids, Waterlevels, Constituents
- 2a. **Summary Description of Contents** These files contain data collected by in-situ water level gauges, and tidal predictions for the Great Lakes, St. Lawrence Seaway and oceans around Canada
- 2b. **Purpose of the Database** These data are used for making tidal predictions in support of the Canadian Hydrographic Service Tide Tables, supplementary requested predictions, and research into tidal phenomena. They are also used in engineering, hydro-electric power planning, ship traffic regulation, and construction design projects related to water levels
- 3a. **Name and Address of Responsible Organization** Marine Environmental Data Service, Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260
- 3c. **Access Mechanisms** Data are usually available through the contact organization but in special cases are accessible by direct on-line access
- 4a. **Variables Included (summarized if extensive)**
 - water elevation (time series), tidal constituents
- 4b. **Geographic Coverage** In general, the coastal areas covered by 35°-90° N latitude, 40°-180° W longitude, including the Great Lakes and St. Lawrence Seaway. Under special arrangement it is possible to examine other coastal locations in the world
- 4c. **Data Acquisition Method(s)** Data obtained from the Canadian Hydrographic Service and from regional offices of Inland Waters, Environment Canada
- 4d. **Geographic Unit(s) of Measurement** Data are accessible for user selected areas, time periods and variables. While data have identification numbers assigned, this is not the usual retrieval criterion. Data are also referenced by latitude and longitude
- 4e. **Period of Record** Late 1800's - present, over 50% of data from 1945 to present
- 4f. **Update Frequency** Data are updated daily and monthly
- 4g. **Database Hardware/Software Configuration** VAX 6320 computer with FORTRAN software, data are available in ASCII files, on diskette and on magnetic tape
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** All data are public information
6. **Price Information** MEDS operates on a tiered Departmental cost recovery policy. Users working with MEDS in joint programs, or those in DFO are given free access. Other government departments are charged for materials. Private sector clients pay the sum of direct and indirect costs as defined in the Financial Administration Act
7. **Corresponding Printed Sources**
 1. Tide and current tables
 2. Water level bulletin (weekly data from specific gauges on the Great Lakes)
 3. Annual summary and historical extremes
 4. Monthly and yearly means
8. **Languages** MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data
9. **User Aids Available** MEDS maintains a user's guide of data and data products which is available upon request
10. **Keywords** Freshwater, Marine, Oceanography, Tides, Water levels
11. **Additional Information** None

WAVES

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Contains Canadian data collected by in-situ wave observing instrumentation and model hindcasts.
- 2b **Purpose of the Database** The data are used in research, and in the design of offshore structures and ships.
- 3a **Name and Address of Responsible Organization** Marine Environmental Data Service, Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260
- 3c **Access Mechanisms** Data are usually available through the contact organization but in special cases are accessible by direct on-line access.
- 4a **Variables Included (summarized if extensive)**
 - water elevation (time series)
 - wave spectra (non-directional, directional)
 - significant wave height
 - peak period
 - mean direction
- 4b **Geographic Coverage** The data have been collected in the area covered by 35-90° N latitude, 40°-180° W longitude. Some data are available for the Great Lakes.
- 4c **Data Acquisition Method(s)** Data collected by the Department, Canada Oil and Gas Lands Administration, Environment Canada, and the U.S. National Oceanic and Atmospheric Administration.
- 4d **Geographic Unit(s) of Measurement** Data are accessible for user-selected areas, time periods and variables. Geographic information is by latitude and longitude.
- 4e **Period of Record** Late 1960's - present.
- 4f **Update Frequency** Data are updated soon after receipt, typically weekly.
- 4g **Database Hardware/Software Configuration** VAX 6320 computer with FORTRAN software; data are available in ASCII files, on diskettes and on magnetic tape.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, maps.
- 5 **Restrictions and Conditions** All data are public information.
- 6 **Price Information** MEDS operates on a tiered Departmental cost recovery policy. Users working with MEDS in joint programs, or those in DFO are given free access. Other government departments are charged for materials. Private sector clients pay the sum of direct and indirect costs as defined in the Financial Administration Act.
- 7 **Corresponding Printed Sources** None (the on-line system is very user-friendly).
- 8 **Languages** MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data.
- 9 **User Aids Available** MEDS maintains a user's guide of data and data products which is available upon request.
- 10 **Keywords** Marine; Oceanography; Storms; Transportation; Waves.
- 11 **Additional Information** None.

FISHERIES AND OCEANS

Quebec Region

<i>Fisheries and Oceans Quebec Region Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ARCTIC MARINE BIOLOGICAL OCEANOGRAPHY DATABASE	Dr. J. A. Percy (514) 457-3660	140
ARCTIC MARINE MAMMAL DATA	Dr. Tom Smith (514) 457-3660	140
FISH PLANT PRODUCTION IN QUEBEC	Ms. Louise Savage (418) 648-5935	141
FISHERIES DATABASE ON PERSONS, BOATS AND PERMITS FOR QUEBEC	Ms. Louise Savage (418) 648-5935	141
GULF OF ST. LAWRENCE COMMERCIAL FISHERIES SAMPLING DATABASE	Mr. A. Sinclair (418) 775-6643	142
GULF OF ST. LAWRENCE RESEARCH VESSEL FISHERIES SURVEYS DATABASE	Mr. A. Sinclair (418) 775-6643	142
GULF OF ST. LAWRENCE SHRIMP SURVEYS DATABASE	Mr. A. Sinclair (418) 775-6643	143
INTEGRATED INFORMATION SYSTEM FOR FISH HABITAT MANAGEMENT (IISFHM) (ST. LAWRENCE)	Mr. Louis Désilets (418) 775-6577	143
MARINE AND ANADROMOUS ARCTIC FISHES	Ms. Christiane Hudon (514) 457-3660 Mr. Rod Morin (514) 457-3660	144
QUEBEC FISHERIES CATCH, EFFORT, AND QUOTA DATABASE	Ms. Louise Savage (418) 648-5935	144

Arctic Marine Biological Oceanography Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological oceanographic data for the Canadian Arctic with emphasis on the eastern Arctic.
- 2b. **Purpose of the Database** To collect basic biological oceanographic data.
- 3a. **Name and Address of Responsible Organization** Arctic Biological Station, Quebec Region, Department of Fisheries and Oceans, 555 St. Pierre Blvd., Ste. Anne de Bellevue, Quebec, H9X 3R4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J. A. Percy (514) 457-3660
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - bacterial counts
 - phytoplankton (species, counts)
 - zooplankton (species, counts)
 - benthic species
 - chemistry (phosphate, nitrate, silicate and dissolved carbon)
 - physical data (temperature, depth, salinity)
 - tides
 - weather
 - ice cover
 - date, time, location of sampling (latitude, longitude)
- 4b. **Geographic Coverage** Arctic Canada, with emphasis on the eastern Arctic (see 11).
- 4c. **Data Acquisition Method(s)** Research cruises; land-based and nearshore sampling.
- 4d. **Geographic Unit(s) of Measurement** Beginning and end of sampling transects referenced by latitude, longitude.
- 4e. **Period of Record** 1947 - 1990 for eastern Arctic cruises.
- 4f. **Update Frequency** Continually.
- 4g. **Database Hardware/Software Configuration** Some data on IBM microcomputer with DBASE III PLUS software, others in paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for reports; database information charges are being determined.
7. **Corresponding Printed Sources** Numerous biological oceanography data reports published by the Department; available on microfiche from library.
8. **Languages** The reports and database are in English
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Arctic; Biological oceanography; Marine.
11. **Additional Information**
 1. A new vessel is currently under construction; investigations are confined to the nearshore areas.
 2. Formerly this Institution collected data for the entire Arctic. As of the late 1970's the Freshwater Institute in Winnipeg has been collecting data for the western Arctic while the Arctic Biological Station has collected data for James Bay, eastern Hudson Bay and the Hudson Strait.

Arctic Marine Mammal Data

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Population, behaviour and contaminant data for mammals in the Canadian Arctic.
- 2b. **Purpose of the Database** To monitor population dynamics of whales, seals and their predators for management purposes.
- 3a. **Name and Address of Responsible Organization** Arctic Biological Station, Department of Fisheries and Oceans, 555 St. Pierre Blvd., Ste. Anne de Bellevue, Quebec, H9X 3R4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Tom Smith (514) 457-3660
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (ring seal, beluga whale, polar bear, arctic fox, walrus)
 - kill site (latitude and longitude)
 - village from which specimen obtained
 - year
 - specimen characteristics (age, sex, size)
 - contaminant data
- 4b. **Geographic Coverage** High Arctic, western Arctic, eastern Baffin Island, eastern Hudson Bay and Hudson Strait.
- 4c. **Data Acquisition Method(s)** Specimens obtained from native hunters or by staff.
- 4d. **Geographic Unit(s) of Measurement** Individual sample sites referenced by latitude and longitude.
- 4e. **Period of Record** 1964 - present.
- 4f. **Update Frequency** Periodically as new data are collected.
- 4g. **Database Hardware/Software Configuration** Data on magnetic tape with and IBM 360 system, IBM PC disks and paper files.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None for published material up to 1977; priority for more recent data to authors of reports in progress.
6. **Price Information** No charge for publications; prices for data based on costs for extracting information.
7. **Corresponding Printed Sources** Numerous scientific papers have been prepared; see contact person.
8. **Languages** Papers are available in English with French abstracts.
9. **User Aids Available** None.
10. **Keywords** Arctic; Contaminants; Marine mammals; Population dynamics; Wildlife.
11. **Additional Information**
 1. The organization responsible has many data collections of varying sizes. The largest are those for ring seals (15,000 animals) from eastern Baffin Island and the western Arctic (10,000 animals) and for beluga whales from the high Arctic, Hudson Bay and Hudson Strait. These are all computerized. Data on other species and topics such as behaviour, nutrition and contaminants are in paper files.
 2. Data up to 1977 have been summarized and published. Papers are currently being prepared with more recent data.

Fish Plant Production in Quebec

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Statistics on production of and employment in fish plants in Quebec.
- 2b. **Purpose of the Database** Fisheries management, quota control.
- 3a. **Name and Address of Responsible Organization** Statistics and Informatics Division, Ministry of Fisheries and Oceans, Quebec Region, 901 Cap Diamant, Quebec City, Quebec, G1K 7Y7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Louise Savage (418) 648-5935
- 3c. **Access Mechanisms** Through the organization responsible by written or telephone requests.
- 4a. **Variables Included (summarized if extensive)**
 - production, volume, value by species and type of product
 - numbers employed
- 4b. **Geographic Coverage** Quebec.
- 4c. **Data Acquisition Method(s)** Collected monthly
- 4d. **Geographic Unit(s) of Measurement** By community.
- 4e. **Period of Record** 1984 - to present.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** HP-3000.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Statistics which may identify an individual boat, buyer or fisherman are confidential.
6. **Price Information** No charge for regular reports.
7. **Corresponding Printed Sources** Annual and monthly statistical reviews
8. **Languages** Reports are available in French.
9. **User Aids Available** Catalogue of statistical reports; on-site assistance
10. **Keywords** Atlantic; Fisheries; Quebec.
11. **Additional Information** None.

Fisheries Database on Persons, Boats and Permits for Quebec

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on the number of fishermen, boats and permits
- 2b. **Purpose of the Database** Management of fisheries, control of quotas for Quebec
- 3a. **Name and Address of Responsible Organization** Fish Habitat Management Division, Department of Fisheries and Oceans, Gare Maritime Champlain, 901 Cap Diamant, Box 15500, Quebec, Quebec, G1K 7Y7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Louise Savage (418) 648-5935
- 3c. **Access Mechanisms** Through the organization responsible by written or telephone requests
- 4a. **Variables Included (summarized if extensive)**
 - number of fishermen
 - number of boats by type
 - number of permits by type
- 4b. **Geographic Coverage** Quebec, salt water
- 4c. **Data Acquisition Method(s)** Through the issuing of permits
- 4d. **Geographic Unit(s) of Measurement** Community of residence, home port, port of landing
- 4e. **Period of Record** 1984 - to present
- 4f. **Update Frequency** Daily
- 4g. **Database Hardware/Software Configuration** HP-3000
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and conditions** Statistics which may identify an individual boat, buyer or fisherman are confidential
6. **Price Information** No charge for regular reports
7. **Corresponding Printed Sources** Annual and monthly statistical reviews
8. **Languages** Reports are available in French
9. **User Aids Available** Catalogue of statistical reports, on-site assistance
10. **Keywords** Fisheries; Gulf of St. Lawrence, Quebec
11. **Additional Information** None

Gulf of St. Lawrence Commercial Fisheries Sampling Database

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on fish caught commercially in the northern Gulf of St. Lawrence.
- 2b. **Purpose of the Database** To monitor fish stocks for management purposes.
- 3a. **Name and Address of Responsible Organization** Fisheries Research Division, Biological Sciences Branch, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer, P.O. Box 1000, Mont Joli, Quebec, G5H 3Z4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. A. Sinclair (418) 775-6643
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (cod, herring, mackerel, shrimp, snow crab, american plaice, witch flounder, white hake, redfish, caplin)
 - catch location (NAFO unit areas)
 - number of fish measured
 - total weight of sample
 - gear used
 - vessel data, landing port
 - depth fished
 - fish (length, age, market category, sex, condition)
 - date
- 4b. **Geographic Coverage** Northern Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** Samples from vessels at landing port.
- 4d. **Geographic Unit(s) of Measurement** Catch data recorded by Northwest Atlantic Fisheries Organization (NAFO) unit areas.
- 4e. **Period of Record** 1984 - present.
- 4f. **Update Frequency** As catch is brought in.
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Data on landings by individual vessels is confidential.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Internal reports are prepared. Data are used in the preparation of Canadian Atlantic Fisheries Scientific Advisory Committee reports for each species.
8. **Languages** Most reports are in French with English abstracts.
9. **User Aids Available** None.
10. **Keywords** Cod; Crab; Fisheries; Gulf of St. Lawrence; Marine; Quebec; Shrimp.
11. **Additional Information** None.

Gulf of St. Lawrence Research Vessel Fisheries Surveys Database

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on fish stocks in the northern Gulf of St. Lawrence.
- 2b. **Purpose of the Database** To estimate the abundance of groundfish stocks for management purposes and monitor community structure.
- 3a. **Name and Address of Responsible Organization** Fisheries Research Division, Biological Sciences Branch, Quebec Region, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer, P.O. Box 1000, Mont Joli, Quebec, G5H 3Z4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. A. Sinclair (418) 775-6643
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (american plaice, cod, redfish, turbot, etc.)
 - total number of species
 - total weight of each species
 - fish (length, weight, age)
 - date
 - location (latitude, longitude, NAFO unit area)
 - depth, time, water temperature
- 4b. **Geographic Coverage** Northern Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** Random surveys using otter trawls from vessel, taken twice a year.
- 4d. **Geographic Unit(s) of Measurement** Sampling locations recorded by latitude, longitude to nearest degree and Northwest Atlantic Fisheries Organization (NAFO) unit areas.
- 4e. **Period of Record** January survey 1978 - present; August survey 1984 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX 8550 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Internal reports on the cruises are prepared. Data are used in the preparation of Canadian Atlantic Fisheries Scientific Advisory Committee reports for each species.
8. **Languages** Most reports are in French with English abstracts.
9. **User Aids Available** None.
10. **Keywords** Cod; Fish; Fisheries; Gulf of St. Lawrence; Marine; Quebec.
11. **Additional Information**
 1. Mapping capabilities are being developed.
 2. It is planned to move the database to an ORACLE database management system.

Gulf of St. Lawrence Shrimp Surveys Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on shrimp stocks in the northern Gulf of St. Lawrence.
- 2b. **Purpose of the Database** To estimate the abundance of shrimp species for fisheries management purposes.
- 3a. **Name and Address of Responsible Organization** Fisheries Research Division, Biological Sciences Branch, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer, P.O. Box 1000, Mont Joli, Quebec, G5H 3Z4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. A. Sinclair (418) 775-6643
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species
 - weight of each species
 - total numbers
 - date
 - location (latitude, longitude, NAFO unit area)
 - depth
 - water temperature
 - gear used
- 4b. **Geographic Coverage** Northern Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** Tows made at randomly located stations in September
- 4d. **Geographic Unit(s) of Measurement** Sampling locations referenced by latitude, longitude to nearest degree and Northwest Atlantic Fisheries Organization (NAFO) unit area
- 4e. **Period of Record** 1982 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX 8550 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Internal cruise reports are prepared. Data are used in the preparation of a Canadian Atlantic Fisheries Scientific Advisory Committee report
8. **Languages** Most reports are in French with English abstracts.
9. **User Aids Available** None.
10. **Keywords** Fisheries; Gulf of St. Lawrence; Marine; Quebec; Shrimp
11. **Additional Information** None.

**Integrated Information System
for Fish Habitat Management (IISFHM) (St. Lawrence)**

1. **Datafile Name(s)** Not applicable
- 2 a. **Summary Description of Contents** Quality and distribution of fish habitat in near-shore areas of the north shore of the Gulf of St. Lawrence and tidal St. Lawrence River.
- 2b. **Purpose of the Database** To provide data for habitat risk assessment
- 3a. **Name and Address of Responsible Organization** Fish Habitat Management Division, Department of Fisheries and Oceans, Gare Maritime Champlain, 901 Cap Diamant, Box 15500, Quebec, Quebec, G1K 7Y7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Louis Désilets (418) 775-6577
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - habitat use (spawning, rearing, migration)
 - physical, chemical data (temperature, salinity, littoral erosion, depth)
 - species (cod, herring, redfish, mussels, smelt, tom cod, flounder, lobster, shrimp)
 - physical, chemical preferences
 - location (latitude, longitude)
 - information sources
- 4b. **Geographic Coverage** Near-shore Gulf of St. Lawrence, tidal St. Lawrence River, Baie de Chaleur
- 4c. **Data Acquisition Method(s)** Literature survey, fishermen, projects conducted by the Institute, Marine Environment Data Service (Department of Fisheries and Oceans), Habitat Monitoring
- 4d. **Geographic Unit(s) of Measurement** Areas referenced by latitude and longitude
- 4e. **Period of Record** 1984 - present
- 4f. **Update Frequency** Annual
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with AUTOCAD, SPANS, OS/2, ORACLE, EDIBASE
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, graph, tables
5. **Restrictions and Conditions** Single user
6. **Price Information** No charge
7. **Corresponding Printed Sources** Departmental reports outlining methods and maps, surveys and data available
8. **Languages** Database is in French
9. **User Aids Available** None
10. **Keywords** Coastal zone; Fish habitat; Fisheries; Gulf of St. Lawrence, Marine ecosystems; Quebec; Risk assessment, St. Lawrence River
11. **Additional Information**
 1. This database is not fully operational. Mapped data and recent information are being added.
 2. See Vigneault, Yvan. "An Integrated Information System for Fish Habitat Management (IISFM) in Quebec: Status of System After the First Phase of Implementation" *Canadian Technical Report on Fisheries and Aquatic Sciences*, No. 1744E

Marine and Anadromous Arctic Fishes

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological data on marine and anadromous fish in the Canadian Arctic.
- 2b. **Purpose of the Database** To provide basic biological data on fish.
- 3a. **Name and Address of Responsible Organization** Arctic Biological Station, Quebec Region, Department of Fisheries and Oceans, 555 St. Pierre Blvd., Ste. Anne de Bellevue, Quebec, H9X 3R4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Christiane Hudon (514) 457-3660 Mr. Rod Morin (514) 457-3660
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (Arctic char, whitefishes, brook trout, Atlantic salmon, Greenland cod, sculpins)
 - catch (number/weight of fish per unit effort)
 - fish density
 - biology (length, weight, age, sex, fecundity)
 - sampling methods (gear)
 - location (latitude, longitude), date, time of sample
 - hydrographic data (water temperature, salinity, conductivity, currents)
- 4b. **Geographic Coverage** Arctic Canada, with emphasis on the eastern Arctic (see 11).
- 4c. **Data Acquisition Method(s)** Research vessel cruises.
- 4d. **Geographic Unit(s) of Measurement** Sampling stations referenced by latitude, longitude, in-house numbering system.
- 4e. **Period of Record** Late 1950's - late 1970's for entire Arctic; 1973-1976 and 1985 - present for eastern Arctic.
- 4f. **Update Frequency** Continuously.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with DBASE III+ and LOTUS 1-2-3 software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** To be determined.
7. **Corresponding Printed Sources** The data are published mainly in scientific journals.
8. **Languages** The database and articles are in English.
9. **User Aids Available** Mimeographed user's manual.
10. **Keywords** Anadromous; Aquatic ecosystems; Arctic; Fish; Marine; Salmon.
11. **Additional Information**
 1. Formerly this Institution collected data for the entire Arctic. As of the late 1970's, the Freshwater Institute in Winnipeg has been collecting data for the western Arctic while the Arctic Biological Station has collected data for James Bay, eastern Hudson Bay and the Hudson Strait.
 2. Many of the specimen samples are sent to the Canadian Museum of Nature in Ottawa.

Quebec Fisheries Catch, Effort, and Quota Database

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on landings (quantity, value) by species, by boat and fishing effort.
- 2b. **Purpose of the Database** Fisheries management, quota controls.
- 3a. **Name and Address of Responsible Organization** Statistics and Informatics Division, Ministry of Fisheries and Oceans, Quebec Region, 901 Cap Diamant, Quebec City, Quebec, G1K 7Y7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Louise Savage (418) 648-5935
- 3c. **Access Mechanisms** Through the organization responsible by written or telephone requests.
- 4a. **Variables Included (summarized if extensive)**
 - landings (value, volume, by boat, species)
 - fishing effort (unit of effort defined by the gear used, number of days at sea, etc.)
- 4b. **Geographic Coverage** Quebec - marine waters from a point east of Île d'Orléans to the Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** All landings must be recorded and registered through a sales receipt. For certain fisheries, a log is maintained.
- 4d. **Geographic Unit(s) of Measurement** Ports.
- 4e. **Period of Record** 1984 - to date.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** HP-3000.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables in reports.
5. **Restrictions and Conditions** Data which could identify an individual operator, boat or purchaser are confidential.
6. **Price Information** No charge for the regular reports.
7. **Corresponding Printed Sources** Annual Statistical Review. Monthly Statistical Review.
8. **Languages** Reports are in French.
9. **User Aids Available** Catalogue of Statistical Reports; on-site assistance.
10. **Keywords** Fisheries; Gulf of St. Lawrence; Quebec.
11. **Additional Information** None.

FISHERIES AND OCEANS

Scotia-Fundy Region

<i>Fisheries and Oceans Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ATLANTIC AND ARCTIC BIOLOGICAL OCEANOGRAPHY DATABASE	Dr. T. Platt (902) 426-3793	146
ATLANTIC SATELLITE IMAGERY DATABASE (NOAA AVHRR DATA)	Ms. Linda Payzant (902) 426-8232 Dr. B.J. Topliss (902) 426-8232	146
BAY OF FUNDY INVERTEBRATE FISHERY	Dr. Peter Lawton (506) 529-8854 Dr. Shawn Robinson (506) 529-8854 Mr. Gerald Fawkes (506) 529-8854	147
BAY OF FUNDY LARVAL HERRING DATABASE	Dr. Robert L. Stephenson (506) 529-8854	147
CHEMICAL CHARACTERISTICS OF NOVA SCOTIA RIVERS	Dr. Walton Watt (902) 426-3606 Dr. Gil Farmer (902) 426-7819 Mr. Wesley White (902) 426-3576	148
LONG TERM OCEAN TEMPERATURE MONITORING (CMCTD) DATABASE	Mr. Doug Gregory (902) 426-8931	148
MARINE CHEMISTRY DATABASE	Dr. J.M. Bowers (902) 426-7079	149
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OCEAN TEMPERATURE AND SALINITY PROFILES (CMCTD) DATABASE	Mr. Doug Gregory (902) 426-8931	150
PCB CONTENT OF PLANKTON IN NOVA SCOTIA	Mr. Gareth Harding (902) 426-2692	150
PHYTOPLANKTON MONITORING PROGRAM, ATLANTIC ZONE	Dr. Don Gordon (902) 426-3278	151
SCOTIA-FUNDY COMMERCIAL HERRING DATABASE	Dr. Robert L. Stephenson (506) 529-8854	151
SCOTIA-FUNDY GROUND FISH SAMPLING DATABASE	Mr. Kees Zwanenburg (902) 426-3310	152
SCOTIA-FUNDY GROUND FISH SURVEYS	Mr. S. Gavaris (506) 529-8854	152
SCOTIA-FUNDY MARINE MAMMALS DATABASE	Dr. Don W. Bowen (902) 426-8909	153
SCOTIA-FUNDY OBSERVER PROGRAM (MAROD) DATABASE	Dr. Don E. Waldron (902) 426-2937	153
SCOTIA-FUNDY STREAM INVENTORY	Mr. R. Sweeney (902) 426-2253	154
SCOTIAN SHELF ICHTHYOPLANKTON DATABASE (SSIP)	Mr. R. N. O'Boyle (902) 426-4890	154

Atlantic and Arctic Biological Oceanography Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on physical oceanography, primary production, nutrient concentrations and zooplankton in the Northwest Atlantic and eastern Arctic Oceans.
- 2b. **Purpose of the Database** To monitor changes in biological production in the oceans due to changes in carbon dioxide and nutrient levels.
- 3a. **Name and Address of Responsible Organization** Biological Oceanography Division, Department of Fisheries and Oceans, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. T. Platt (902) 426-3793
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - primary production
 - chlorophyll concentrations
 - inorganic nutrients (phosphate, silicate, nitrate)
 - incident light
 - zooplankton (species, biomass)
 - CTD profiles
 - submarine light
 - particulate organic concentrations
 - microbial concentrations
- 4b. **Geographic Coverage** Northwest Atlantic and eastern Arctic oceans.
- 4c. **Data Acquisition Method(s)** Field monitoring from ships or through the ice.
- 4d. **Geographic Unit(s) of Measurement** Sites referenced by latitude and longitude.
- 4e. **Period of Record** 1967 - present.
- 4f. **Update Frequency** When new data are available.
- 4g. **Database Hardware/Software Configuration** Mainframe computer using custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, plots.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Annual publications in the Department's series, *Canadian Data Report of Fisheries and Aquatic Sciences*.
8. **Languages** The database is in English; the reports are in English with French abstracts.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production.
11. **Additional Information** A list of publications is available from the responsible organization.

Atlantic Satellite Imagery Database (NOAA AVHRR Data)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Satellite imagery data for the Atlantic coast of Canada north to the southern tip of Baffin Island.
- 2b. **Purpose of the Database** To supply oceanographic data to researchers.
- 3a. **Name and Address of Responsible Organization** Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Linda Payzant (902) 426-8232 Dr. B.J. Topliss (902) 426-8232
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - channels 1 through 5 monitored: (1) visible; (2) visible; (3) near infrared; (4) thermal infrared; (5) thermal infrared.
- 4b. **Geographic Coverage** Approximately 40°-65° N latitude, 40°-80° W longitude.
- 4c. **Data Acquisition Method(s)** One image is obtained per day.
- 4d. **Geographic Unit(s) of Measurement** 1 km² pixels covering 2,000 km east-west and 3,000 km north-south.
- 4e. **Period of Record** 1984 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** Mainframe computer with data stored on 9-track magnetic tape; satellite image analysis software is required for reading.
- 4h. **Output Format(s) (tables, maps, etc.)** Users must do their own processing to produce outputs; coloured maps and slides can be made.
5. **Restrictions and Conditions** None.
6. **Price Information** Cost recovery.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is mainly numbers.
9. **User Aids Available** NOAA *Polar Orbiter Data Users Guide*.
10. **Keywords** Atlantic; Remote sensing; Satellite imagery; Oceanography.
11. **Additional Information**
 1. Data are currently analyzed to produce sea surface temperature.
 2. Software is being developed to conduct ice tracking studies.
 3. This database exists as a tool for researchers and is not set up to respond to public requests.

Bay of Fundy Invertebrate Fishery

1. **Datafile Name(s)** Lobster fishing areas 35, 36, 38; Clams
- 2a. **Summary Description of Contents** Data on catch and effort for the clam and lobster fisheries in the Bay of Fundy.
- 2b. **Purpose of the Database** To monitor the commercial invertebrate fisheries for management purposes.
- 3a. **Name and Address of Responsible Organization** Invertebrate Fisheries Section, Aquaculture and Invertebrate Fisheries, Biological Sciences Branch, Department of Fisheries and Oceans, St. Andrews, New Brunswick, E0G 2X0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Dr. Peter Lawton (506) 529-8854 Dr. Shawn Robinson (506) 529-8854
 Mr. Gerald Fawkes (506) 529-8854 FAX: (506) 529-4274
- 3c. **Access Mechanisms** Through responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - lobster (sex, molt stage, egg condition, parasites, carapace length); water depth; water temperature; catch location (latitude, longitude, LORAN C bearings); port (home port, port of vessel registry); number of traps
 - clams: number of diggers; catch per digger; kg/tide; size frequency; location (UTM)
- 4b. **Geographic Coverage** Bay of Fundy.
- 4c. **Data Acquisition Method(s)** Lobster data collected by Department personnel onboard vessels; clam data collected through monthly aerial surveys and interviews with fishermen
- 4d. **Geographic Unit(s) of Measurement** Lobster - latitude, longitude, LORAN C bearing; clams - 200 x 200 m blocks.
- 4e. **Period of Record** Lobster: 1960's - present; Clams: 1988 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Lobster data on VAX computer with custom and SPSS software; clam data on VAX computer with ORACLE database management system and IBM microcomputer with MICROSOFT EXCEL software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None; approval from contact required
6. **Price Information** No charge for reasonably sized requests.
7. **Corresponding Printed Sources** Documents are prepared annually for lobster
8. **Languages** Database is mainly numbers.
9. **User Aids Available** Port codes.
10. **Keywords** Atlantic; Bay of Fundy; Clams; Fisheries; Invertebrates; Lobster; Shellfish
11. **Additional Information**
 1. The clam database is under development.
 2. In the future, a sea urchin database may be developed.

Bay of Fundy Larval Herring Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on the abundance of larval herring and other zooplankton in the Bay of Fundy and eastern Gulf of Maine region
- 2b. **Purpose of the Database** Stock assessment and fisheries management
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Scotia-Fundy Region, Department of Fisheries and Oceans, St. Andrew's Biological Station, St. Andrews, New Brunswick, E0G 2X0
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Dr. Robert L. Stephenson (506) 529-8854 FAX: (506) 529-4274
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - number of larval herring
 - volume of water filtered
 - temperature (surface, bottom)
 - salinity
 - relative number of zooplankton by broad taxonomic group
- 4b. **Geographic Coverage** Bay of Fundy and eastern Gulf of Maine
- 4c. **Data Acquisition Method(s)** Research vessel cruise using plankton gear
- 4d. **Geographic Unit(s) of Measurement** Latitude and longitude on a systematic grid
- 4e. **Period of Record** 1972 - present
- 4f. **Update Frequency** Annually in the fall
- 4g. **Database Hardware/Software Configuration** VAX 6210 with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** User defined
5. **Restrictions and Conditions** Contact person in 3b
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** Sequential file
9. **User Aids Available** None
10. **Keywords** Atlantic; Bay of Fundy; Fish; Fisheries; Herring; Plankton; Zooplankton
11. **Additional Information** Occasional larval and juvenile surveys are carried out at other times of the year

Chemical Characteristics
of Nova Scotia Rivers

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Water quality data for major tributaries of rivers supporting populations of Atlantic salmon in Nova Scotia.
- 2b. **Purpose of the Database** To monitor water quality, assess its impacts on the Atlantic salmon fishery and determine stocking locations.
- 3a. **Name and Address of Responsible Organization** Freshwater and Anadromous Division, Biological Sciences Branch, Department of Fisheries and Oceans, P.O. Box 550, Halifax, Nova Scotia, B3J 2S7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Walton Watt (902) 426-3606 Dr. Gil Farmer (902) 426-7819
Mr. Wesley White (902) 426-3576
- 3c. **Access Mechanisms** Data available on diskette from Inland Waters Directorate, Environment Canada, Ottawa.
- 4a. **Variables Included (summarized if extensive)**
- sampling date
 - flow
 - total hardness
 - specific conductivity
 - apparent colour
 - calcium, magnesium, chloride, sulphate, aluminum
 - pH
 - total alkalinity
- 4b. **Geographic Coverage** Approximately 60-80 rivers, mainly in Nova Scotia and some in New Brunswick.
- 4c. **Data Acquisition Method(s)** Water samples collected from major salmon rivers and tributaries.
- 4d. **Geographic Unit(s) of Measurement** Individual sample sites.
- 4e. **Period of Record** 1982-1985.
- 4f. **Update Frequency** No plans to update database.
- 4g. **Database Hardware/Software Configuration** Data available in LOTUS format.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Five reports in the Canadian Journal of Fisheries and Aquatic Sciences data report series (see 11).
8. **Languages** Reports are available in English with French abstracts.
9. **User Aids Available** None.
10. **Keywords** Fish habitat; Nova Scotia; Rivers; Salmon; Water; Water quality.
11. **Additional Information** Most of the data on chemical characteristics collected by this Division is entered in NAQUADAT, a database held by Environment Canada, Ottawa; however the contacts listed are most familiar with this stream database.

Long Term Ocean Temperature Monitoring
(CMCTD) Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Time series of temperature data for nearshore areas of the east coast of Canada.
- 2b. **Purpose of the Database** To obtain temperature data for use in oceanographic research, climate monitoring and aquaculture.
- 3a. **Name and Address of Responsible Organization** Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Doug Gregory (902) 426-8931
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- temperature (sampled at 4 hr. intervals)
- 4b. **Geographic Coverage** East coast of Canada.
- 4c. **Data Acquisition Method(s)** Continuous recording thermographs moored for six months up to half a mile offshore are returned to the Department by fishermen.
- 4d. **Geographic Unit(s) of Measurement** Sampling sites referenced by latitude and longitude.
- 4e. **Period of Record** 1978 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Mainframe computer using FORTRAN and PASCAL software; data available in ASCII files on diskette or magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** None.
6. **Price Information** \$25/hour retrieval costs to provide data (typical charge less than \$50).
7. **Corresponding Printed Sources** *Long Term Temperature Monitoring Program* - Annual Data Report.
8. **Languages** The database is mostly numbers; the report is in English.
9. **User Aids Available** BIO Moored Thermograph Data Inventory.
10. **Keywords** Atlantic; Marine; Oceanography.
11. **Additional Information**
1. Data are summarized for four-hour intervals.
 2. Data are sent annually to the Marine Environment Data Service in Ottawa. There is generally a two-year lag period between data acquisition and submission to MEDS.

Marine Chemistry Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Marine chemical data from all east coast Canadian waters and surface sediments.
- 2b. **Purpose of the Database** Chemical oceanographic research.
- 3a. **Name and Address of Responsible Organization** Marine Chemistry Division, Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. J.M. Bowers (902) 426-7079
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - depth, salinity, temperature, nutrients, pH, alkalinity, dissolved oxygen, organic matter
 - trace metals, trace organic compounds, petroleum hydrocarbons, stable isotope ratios, radionuclides, trace gases
- 4b. **Geographic Coverage** All east coast marine waters including the Arctic archipelago and Arctic ocean. Data also available for international waters
- 4c. **Data Acquisition Method(s)** Chemical oceanographic research cruises
- 4d. **Geographic Unit(s) of Measurement** Data measured at individual sites
- 4e. **Period of Record** 1970 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Mainframe computer (not available for external use).
- 4h. **Output Format(s) (tables, maps, etc.)** Tables (printed or on electronic media).
5. **Restrictions and Conditions** Release of information subject to approval of scientists directing programs concerned. May be restrictions on unverified or uninterpreted data
6. **Price Information** Resource recovery may be required for large requests
7. **Corresponding Printed Sources** Research publications of scientists in Marine Chemistry Division.
8. **Languages** The database is mostly numbers; most reports are only available in English
9. **User Aids Available** None
10. **Keywords** Arctic; Atlantic; Marine; Oceanography
11. **Additional Information**
 1. Good baseline data for offshore areas.
 2. Radionuclide data collected near the Pt. Lepreau Nuclear Power Station.
 3. Contaminant investigations at selected industrial sites.

Ocean Current (CMCTD) Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on approximately 3,000 ocean current time series from various locations along the eastern and Arctic coasts of Canada
- 2b. **Purpose of the Database** To monitor ocean current characteristics for oceanographic research
- 3a. **Name and Address of Responsible Organization** Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Doug Gregory (902) 426-8931
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - speed
 - direction
 - temperature
 - salinity
- 4b. **Geographic Coverage** East coast of Canada and eastern Canadian Arctic
- 4c. **Data Acquisition Method(s)** Data collected from moored current meters by Department personnel, international vessels and industry
- 4d. **Geographic Unit(s) of Measurement** Sampling sites referenced by latitude and longitude
- 4e. **Period of Record** Early 1960's - present
- 4f. **Update Frequency** Every few weeks, annually
- 4g. **Database Hardware/Software Configuration** Mainframe computer using FORTRAN and PASCAL custom software, data available in ASCII format on diskette or magnetic tape
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs
5. **Restrictions and Conditions** Some industry data are proprietary and require permission to access
6. **Price Information** \$25/hour retrieval and analysis cost
7. **Corresponding Printed Sources** None
8. **Languages** The database is mostly numbers
9. **User Aids Available** BIO current meter inventory
10. **Keywords** Arctic; Atlantic; Currents; Marine; Oceanography
11. **Additional Information** Not all parameters exist for all sample sites

Ocean Temperature and Salinity Profiles (CMCTD) Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Records of temperature, pressure and salinity for approximately 20,000 stations covering the eastern coast of Canada, Gulf Stream, and west Atlantic Ocean.
- 2b. **Purpose of the Database** To obtain physical oceanographic data relevant to studies of ocean physics, fisheries, climate and ice.
- 3a. **Name and Address of Responsible Organization** Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Doug Gregory (902) 426-8931
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - pressure, temperature, salinity
 - dissolved oxygen (occasionally measured)
- 4b. **Geographic Coverage** Canadian east coast, Gulf Stream, west Atlantic Ocean.
- 4c. **Data Acquisition Method(s)** Mainly from Departmental and foreign vessels during research cruises.
- 4d. **Geographic Unit(s) of Measurement** Sampling sites referenced by latitude and longitude.
- 4e. **Period of Record** 1970 - present.
- 4f. **Update Frequency** As new data are acquired.
- 4g. **Database Hardware/Software Configuration** Mainframe computer using FORTRAN and PASCAL custom software; data available in ASCII files on diskette or magnetic tape.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** Generally none; permission of scientific authority may be required if data less than two years old.
6. **Price Information** \$25/hour retrieval costs.
7. **Corresponding Printed Sources** Results are incorporated into papers published in the scientific literature.
8. **Languages** The database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** Atlantic; Marine; Oceanography.
11. **Additional Information**
 1. The database is not accessible to outside users at present.
 2. Data are sent annually to the Marine Environmental Data Service in Ottawa. There is generally a two-year lag period between data acquisition and submission to MEDS.

PCB Content of Plankton in Nova Scotia

1. **Datafile Name(s)** Files for several years.
- 2a. **Summary Description of Contents** Data on PCB content of water, plankton and fish in St. Georges Bay, Nova Scotia.
- 2b. **Purpose of the Database** To examine organochlorine dynamics in the marine food web and to complement laboratory investigations.
- 3a. **Name and Address of Responsible Organization** Habitat Ecology Division, Biological Services Branch, Scotia-Fundy Region, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Gareth Harding (902) 426-2692
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - rainfall
 - plankton size fractions
 - fish size and species (herring, mackerel, gaspereau, smelt, etc.)
 - PCB content (ng PCB/g)
 - * wet weight
 - * dry weight
 - * lipid
 - plankton (life span by size class)
 - fish age (estimated)
 - date
- 4b. **Geographic Coverage** St. George's Bay (southern Gulf of St. Lawrence).
- 4c. **Data Acquisition Method(s)** Four plankton nets towed at two to three week intervals, May - November; rainfall data from Atmospheric Environment Service (Port Hood Station).
- 4d. **Geographic Unit(s) of Measurement** All samples collected at centre of Bay.
- 4e. **Period of Record** 1976, 1977, 1982, 1988.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** MACINTOSH microcomputer with EXCEL software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Contact person has publication priority.
6. **Price Information** Undetermined.
7. **Corresponding Printed Sources** None.
8. **Languages** The database and manuscript in preparation are in English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Contaminants; Fish; Gulf of St. Lawrence; PCBs; Plankton.
11. **Additional Information**
 1. The field data in the database complement experimental laboratory studies examining how organochlorines enter marine organisms. These studies use radioactively labelled DDT, algae and copepods.
 2. A manuscript on the behaviour of PCB's in a pelagic food web in the marine coastal environment is in preparation.

Phytoplankton Monitoring Program, Atlantic Zone

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Phytoplankton distribution and abundance in coastal, marine areas of Atlantic Canada.
- 2b. **Purpose of the Database** To monitor the seasonal variation in phytoplankton in the coastal, marine zone.
- 3a. **Name and Address of Responsible Organization** Habitat Ecology, Scotia-Fundy Region, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Don Gordon (902) 426-3278
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - nutrients (nitrate, phosphate, silicate, ammonia, urea)
 - chlorophyll (size - fractionated)
 - domoic acid
 - phytoplankton species
 - water temperature, salinity, dissolved oxygen
 - light levels
- 4b. **Geographic Coverage** Nearshore, marine Atlantic Canada
- 4c. **Data Acquisition Method(s)** Water sampling and net tows are carried out seasonally
- 4d. **Geographic Unit(s) of Measurement** Sampling sites located by latitude, longitude
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Weekly, monthly.
- 4g. **Database Hardware/Software Configuration** The hardware and software to be used have not yet been determined.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** To be determined.
7. **Corresponding Printed Sources** None from this database although publications have been prepared by individual regions.
8. **Languages** The database is in English
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Atlantic; Biota; Biotic response; Marine; Phytoplankton; Plankton.
11. **Additional Information** This database is in preparation. Currently, each of the four regions collects similar data. Plans are to develop a format so that all the data will be interchangeable and standardized.

Scotia-Fundy Commercial Herring Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Biological, gear and location data for the herring fishery in the Scotia - Fundy Region
- 2b. **Purpose of the Database** Stock assessment and fisheries management
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Scotia - Fundy Region, Department of Fisheries and Oceans, St Andrew's Biological Station, St. Andrew's, New Brunswick, E0G 2X0
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Robert L. Stephenson (506) 529-8854 FAX (506) 529-4274
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - fish (length, weight, age, sex, maturity)
 - gear type
 - month, NAFO area
- 4b. **Geographic Coverage** Georges Bank, Bay of Fundy, Scotian Shelf
- 4c. **Data Acquisition Method(s)** Fish from commercial vessels sampled when they land
- 4d. **Geographic Unit(s) of Measurement** Northwest Atlantic Fisheries Organization (NAFO) areas
- 4e. **Period of Record** 1965 - present
- 4f. **Update Frequency** Weekly
- 4g. **Database Hardware/Software Configuration** VAX 6210 with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** User defined
5. **Restrictions and Conditions** Contact person in 3b
6. **Price Information** No charge
7. **Corresponding Printed Sources** The data appear in the annual assessment document produced by the Canadian Atlantic Fisheries Scientific Advisory Committee
8. **Languages** Sequential file
9. **User Aids Available** None
10. **Keywords** Atlantic; Bay of Fundy, Fish, Fisheries, Herring
11. **Additional Information** None

Scotia-Fundy Groundfish Sampling Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Fish characteristics data for commercial fisheries of the coast of Nova Scotia.
- 2b. **Purpose of the Database** Stock assessment and fisheries management.
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Kees Zwanenburg (902) 426-3310
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - fish species (cod, haddock, pollock, redfish)
 - catch location (NAFO unit area, area of capture)
 - date
 - gear type
 - fish sample (length, age)
 - port (country)
- 4b. **Geographic Coverage** Georges Bank, Bay of Fundy, Scotian Shelf.
- 4c. **Data Acquisition Method(s)** Fish from commercial vessels sampled when they land.
- 4d. **Geographic Unit(s) of Measurement** Canadian Statistic Unit Areas.
- 4e. **Period of Record** 1948 - present.
- 4f. **Update Frequency** Weekly.
- 4g. **Database Hardware/Software Configuration** CYBER 860 with custom software in ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** User defined.
5. **Restrictions and Conditions** Access subject to local management authorization.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Annual summary reports are sent to the North Atlantic Fisheries Organization in Dartmouth.
8. **Languages** The database is mostly numbers.
9. **User Aids Available** Commercial Groundfish Samples System.
10. **Keywords** Aquatic ecosystems; Atlantic; Cod; Fish; Fish populations; Groundfish; Marine; Nova Scotia.
11. **Additional Information**
 1. The data are initially put in a temporary file during the calendar year they are collected. They are initialized in March of the next year and entered in the main database. Data for the current year are available within 10 days of field collection.
 2. The database will soon be put on a mainframe computer with an ORACLE database management system.

Scotia-Fundy Groundfish Surveys

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data from eastern Canada on groundfish stocks for Georges Bank and the Scotia Shelf.
- 2b. **Purpose of the Database** To monitor the distribution and abundance of groundfish for fisheries management.
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, St. Andrews Biological Station, Department of Fisheries and Oceans, St. Andrews, New Brunswick, E0G 2X0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. S. Gavaris (506) 529-8854 FAX: (506) 529-4274
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - fish species (cod, haddock, pollock, skate, flatfish, redfish, silver hake)
 - weight (age, maturity of fish), age-maturity and size relations
- 4b. **Geographic Coverage** Georges Bank, Scotian Shelf, Bay of Fundy.
- 4c. **Data Acquisition Method(s)** Research cruises using groundfish trawl.
- 4d. **Geographic Unit(s) of Measurement** Latitude, longitude using stratified random design.
- 4e. **Period of Record** 1950's - present.
- 4f. **Update Frequency** Annually in spring, summer and fall.
- 4g. **Database Hardware/Software Configuration** VAX 6210 with VMS operating system and ORACLE database management system; ASCII files available.
- 4h. **Output Format(s) (tables, maps, etc.)** User defined.
5. **Restrictions and Conditions** Access subject to local management authorization.
6. **Price Information** No charge.
7. **Corresponding Printed Sources**
 1. Internal reports.
 2. Summarized results published in Canadian Atlantic Fisheries Scientific Advisory Committee Reports.
8. **Languages** The reports are in English; the database is mostly numbers.
9. **User Aids Available** STRAP system.
10. **Keywords** Atlantic; Cod; Fish; Fish populations; Fisheries; Groundfish; Marine; Nova Scotia.
11. **Additional Information** As of 1970 all records have a common format and coding system.

Scotia-Fundy Marine Mammals Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Population data on harbour and grey seals breeding in the Scotia Shelf area of eastern Canada.
- 2b. **Purpose of the Database** To obtain information on the seasonal distribution and movement of seal populations and assess the implications for the commercial fishery.
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Don W. Bowen (902) 426-8909
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (harbour, grey seal)
 - animal location (tagged, recovered; latitude, longitude)
 - breeding colony location, number of pups
 - diet (species, size of prey, % energy requirements)
- 4b. **Geographic Coverage** Scotia Shelf.
- 4c. **Data Acquisition Method(s)** Field observations by Departmental personnel and some tag information from fishermen and the public.
- 4d. **Geographic Unit(s) of Measurement** Tag data referenced by latitude and longitude; stomach content data referenced by home port.
- 4e. **Period of Record** 1960's - present.
- 4f. **Update Frequency** Variable, depending upon datafile.
- 4g. **Database Hardware/Software Configuration** Mainframe computer or IBM microcomputer; data available in ASCII format
- 4h. **Output Format(s) (tables, maps, etc.)** User defined
5. **Restrictions and Conditions** Access subject to local management authorization
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Sequential file.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Atlantic; Biota; Mammals; Marine mammals; Seals; Wildlife.
11. **Additional Information** There are plans to expand the program by attaching satellite transmitters to grey seals to follow offshore feeding behaviour

Scotia-Fundy Observer Program
(MAROD) Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on fish stocks obtained from domestic and foreign fishing vessels inside Canada's eastern 200 mile limit
- 2b. **Purpose of the Database** To monitor fish stocks for scientific, management and enforcement purposes.
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Don E. Waldron (902) 426-2937
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - gear
 - time fished location (latitude, longitude)
 - catch (weight, species) and fish (number, length, weight, age)
 - depth
 - surface water temperature
- 4b. **Geographic Coverage** Scotia Shelf, Bay of Fundy, Georges Bank, Gulf of St Lawrence, Grand Banks, Labrador
- 4c. **Data Acquisition Method(s)** Contract personnel monitor vessels while at sea
- 4d. **Geographic Unit(s) of Measurement** Data referenced by latitude and longitude
- 4e. **Period of Record** 1977 - present
- 4f. **Update Frequency** Weekly.
- 4g. **Database Hardware/Software Configuration** CYBER 860 with SYSTEM 2000 database management; ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** User defined
5. **Restrictions and Conditions** Access subject to local management authorization
6. **Price Information** At the discretion of DFO
7. **Corresponding Printed Sources** Some summary reports are available, some internal reports may be available on an individual request basis
8. **Languages** The database and reports are in English
9. **User Aids Available** None
10. **Keywords** Atlantic; Fish populations; Fisheries; Marine
11. **Additional Information**
 1. Although this program is managed by Canada, it is paid for in part by foreign governments, and in certain instances, the Canadian fishing industry
 2. The information is used by industry for selecting locations for further fisheries development
 3. This database will be shifted to ORACLE
 4. The data are used for fish stock assessment
 5. The data are used to manage the fishery for Canada

Scotia-Fundy Stream Inventory

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological and physical data for rivers in the Scotia - Fundy region.
- 2b. **Purpose of the Database** Data used in fish habitat management.
- 3a. **Name and Address of Responsible Organization** Habitat Management Branch, Department of Fisheries and Oceans, P.O. Box 550, Halifax, Nova Scotia, B3T 2S7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. R. Sweeney (902) 426-2253
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - watershed area
 - fish species
 - stream length
 - pool location
 - vegetation cover
 - obstructions
 - pollution sources
 - water withdrawal
 - pH
 - flows, discharge
- 4b. **Geographic Coverage** 30 to 40 large rivers in the Scotia-Fundy region.
- 4c. **Data Acquisition Method(s)** Field observation by Department personnel and data from environmental impact studies conducted externally.
- 4d. **Geographic Unit(s) of Measurement** Data referenced by regional stream and watershed codes.
- 4e. **Period of Record** 1970 - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, tables, text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Atlantic; Fish; New Brunswick; Nova Scotia; Rivers; Watersheds.
11. **Additional Information** There are plans to integrate the data in a GIS database.

Scotian Shelf Ichthyoplankton Database (SSIP)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological data on fish species and environmental data from research surveys on the Scotian Shelf.
- 2b. **Purpose of the Database** To describe the distribution of fish eggs and larvae.
- 3a. **Name and Address of Responsible Organization** Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. R. N. O'Boyle (902) 426-4890
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (sand lance, silver hake, herring, cod, haddock; also fish eggs; larvae; zooplankton)
 - species data (number of individuals, length, development stage)
 - sampling method
 - meteorological data (wind speed and direction, cloud cover and type, air temperature)
 - waves (height, direction)
 - water chemistry (chlorophyll, fluorescence, nitrate, silicate, phosphate)
 - water temperature, salinity
- 4b. **Geographic Coverage** Scotian Shelf, Bay of Fundy.
- 4c. **Data Acquisition Method(s)** Research vessel cruises using plankton gear.
- 4d. **Geographic Unit(s) of Measurement** Samples referenced by latitude, longitude to the nearest minute using systematic grid of 150 stations.
- 4e. **Period of Record** 1976 - 1982.
- 4f. **Update Frequency** Database is now static.
- 4g. **Database Hardware/Software Configuration** CYBER 860 with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** User defined.
5. **Restrictions and Conditions** Access subject to local management authorization.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** See contact person; topics cover spawning time and species distribution.
8. **Languages** Sequential file.
9. **User Aids Available** A user's manual is available.
10. **Keywords** Aquatic ecosystems; Atlantic; Fish; Fisheries; Ichthyoplankton; Marine; Plankton.
11. **Additional Information** This database will soon be transferred to ORACLE.

FISHERIES AND OCEANS

Gulf Region

<i>Fisheries and Oceans Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ATLANTIC SALMON BIOLOGICAL CHARACTERISTICS	Mr. Ross Claytor (506) 851-6249	156
ATLANTIC SALMON ELECTROFISHING DATABASE	Mr. Ross Claytor (506) 851-6249	156
CONTAMINANTS DATABASE (FISH AND FISH PRODUCTS)	Mr. John McLean (506) 851-6571	157
GULF OF ST. LAWRENCE COMMERCIAL FISH SAMPLES (COMSAM)	Mr. John Wright (506) 851-6985 Ms. Gloria Nielsen (506) 851-2035	157
GULF OF ST. LAWRENCE FISH COUNTING FENCE DATABASE	Mr. Ross Claytor (506) 851-6249 Mr. Michael Chadwick (506) 851-6206	158
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GULF REGION COMMERCIAL SNOW CRAB FISHERY	Mr. Gerard Conan (506) 857-6208 Mr. Elmer Wade (506) 857-6210	159
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PHYTOPLANKTON WATER-WATCH	Mr. John McLean (506) 851-6571	160
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SEA SAMPLING FOR THE LOBSTER GULF FISHERY	Mr. Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212	161

Atlantic Salmon Biological Characteristics

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological data on Atlantic salmon in rivers flowing into the Gulf of St.Lawrence.
- 2b. **Purpose of the Database** Data are used to manage the salmon fishery.
- 3a. **Name and Address of Responsible Organization** Marine and Anadromous Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Ross Claytor (506) 851-6249
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - length
 - weight
 - sex
 - age
 - stream
 - site
- 4b. **Geographic Coverage** 15 rivers flowing into the Gulf of St.Lawrence (excluding those in Quebec).
- 4c. **Data Acquisition Method(s)** Rivers sampled several times/year; 1 in 10 fish measured.
- 4d. **Geographic Unit(s) of Measurement** Individual sampling sites referenced by site code.
- 4e. **Period of Record** 1954 - present.
- 4f. **Update Frequency** Several times per year.
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software; SAS used for analyses.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs.
5. **Restrictions and Conditions** A written request for data is required.
6. **Price Information** Depends on request, cost recovery policy.
7. **Corresponding Printed Sources** Some data are used in preparing Canadian Atlantic Fisheries Scientific Advisory Committee documents and other reports.
8. **Languages** The reports are in English; the database is mainly numbers.
9. **User Aids Available** None.
10. **Keywords** Atlantic; Biota; Fish; Fisheries; New Brunswick; Salmon.
11. **Additional Information** These data are collected at the same time as the counting fence data (Gulf of St.Lawrence Fish Counting Fence Database).

Atlantic Salmon Electrofishing Database

1. **Datafile Name(s)** One file for each river.
- 2a. **Summary Description of Contents** Data on juvenile salmon obtained through electrofishing for two of the main salmon rivers in Atlantic Canada.
- 2b. **Purpose of the Database** For salmon fishery management.
- 3a. **Name and Address of Responsible Organization** Marine and Anadromous Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Ross Claytor (506) 851-6249
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - river name
 - site number, date
 - stream characteristics (length, width, water depth, temperature, conductivity, pH)
 - sampling equipment/methods used (mesh size, number of sweeps, time/sweep, etc.)
 - juvenile salmon (age, number caught, class length)
 - other species caught (eels, trout, dace, shiner, sucker, etc.)
- 4b. **Geographic Coverage** About 50 sites on the Miramichi River and about 100 sites on the Restigouche River, New Brunswick.
- 4c. **Data Acquisition Method(s)** Sites sampled annually.
- 4d. **Geographic Unit(s) of Measurement** Individual sampling sites referenced by site code.
- 4e. **Period of Record** Miramichi River, 1970 - present; Restigouche River, 1972 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Data stored in ASCII files.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** A written request for data is required.
6. **Price Information** Depends on request, cost recovery policy.
7. **Corresponding Printed Sources**
 1. *Status of Atlantic Salmon in the Miramichi River.*
 2. *Status of Atlantic Salmon in the Restigouche River.*
8. **Languages** The reports are in English; the database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** Atlantic; Biota; Fish; Fisheries; New Brunswick; Salmon.
11. **Additional Information**
 1. Not all sites are monitored every year. Of the approximately 150 sites, about 30 are monitored annually.
 2. Site codes are based on the Division's own numbering scheme.

Contaminants Database (Fish and Fish Products)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Record of heavy metals and organochlorinated pesticides contaminants in fish and fish products.
- 2b. **Purpose of the Database** To establish baseline data for background levels and to assure adherence to established standards.
- 3a. **Name and Address of Responsible Organization** Inspection Branch, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 8J6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John McLean (506) 851-6571 FAX: (506) 851-2086
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location, date, size
 - methods of analysis
 - concentration in fish and fish products
- 4b. **Geographic Coverage** Gulf Region and imports.
- 4c. **Data Acquisition Method(s)** DFO personnel and labs.
- 4d. **Geographic Unit(s) of Measurement** Sub-districts
- 4e. **Period of Record** 1984 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** IBM - PC based microcomputers, Q & A software and word processing.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Restricted access - contains confidential plant product information - specific summary reports available on request.
6. **Price Information** Not applicable.
7. **Corresponding Printed Sources** Not applicable.
8. **Languages** English and French.
9. **User Aids Available** Not applicable.
10. **Keywords** Contaminants; Fish; Fisheries; Heavy metals; Pesticides
11. **Additional Information** None.

Gulf of St. Lawrence Commercial Fish Samples (COMSAM)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on samples of fish caught commercially in the Gulf of St. Lawrence
- 2b. **Purpose of the Database** To monitor fish stocks for management purposes
- 3a. **Name and Address of Responsible Organization** Marine and Anadromous Fish Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Wright (506) 851-6985 Ms. Gloria Nielsen (506) 851-2035
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species
 - fish (length, age, market category, sex, condition)
 - number of fish measured
 - weight in each market category
 - total weight of sample
 - date
 - catch location (NAFO code)
 - gear used; vessel tonnage, landing port
 - depth fished
- 4b. **Geographic Coverage** Gulf of St. Lawrence
- 4c. **Data Acquisition Method(s)** Samples from commercial vessels at port or at sea
- 4d. **Geographic Unit(s) of Measurement** Data recorded by Northwest Atlantic Fisheries Organization (NAFO) area subdivisions or port
- 4e. **Period of Record** 1948 - present
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX computer or IBM PC's and equivalents with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** Depends on request, cost recovery policy
7. **Corresponding Printed Sources** Internal reports are prepared for each species. These are presented at the Canadian Atlantic Fisheries Scientific Advisory Committee meetings. Subsequently, regional annual reports are prepared
8. **Languages** The reports are in English, the database is mostly numbers
9. **User Aids Available** Technical report *AGELEN (Age-Length, Information System)* Under revision
10. **Keywords** Atlantic; Biota; Fish; Fisheries; Gulf of St. Lawrence; Manne
11. **Additional Information** Prior to 1983 this database was managed by Department of Fisheries and Oceans at the Bedford Institute of Oceanography in Dartmouth. Information for that period still resides there

Gulf of St.Lawrence Fish Counting Fence Database	Gulf of St.Lawrence Integrated Fisheries Management System (HABITAT)
<p>1 Datafile Name(s) Not applicable.</p> <p>2a Summary Description of Contents Data on fish species migration for streams flowing into the Gulf of St.Lawrence.</p> <p>2b. Purpose of the Database Data used for management of the salmon fishery.</p> <p>3a Name and Address of Responsible Organization Marine and Anadromous Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6.</p> <p>3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ross Claytor (506) 851-6249 Mr. Michael Chadwick (506) 851-6206</p> <p>3c. Access Mechanisms Through the responsible organization.</p> <p>4a. Variables Included (summarized if extensive)</p> <ul style="list-style-type: none"> - river, date, time - fish (species, total numbers, number tagged/recaptured) - temperature (water, air) - fish movement direction - trap (number, hours fished) - water level - weather (cloud cover, wind direction, precipitation) <p>4b. Geographic Coverage 15 rivers flowing into the Gulf of St.Lawrence (excluding those in Quebec).</p> <p>4c. Data Acquisition Method(s) Barrier positioned across stream during migration; fish moving both upstream and downstream counted.</p> <p>4d. Geographic Unit(s) of Measurement Individual sampling sites referenced by site code.</p> <p>4e. Period of Record 1952 - present; most sites have data for at least 5 years.</p> <p>4f. Update Frequency Annually.</p> <p>4g. Database Hardware/Software Configuration VAX computer with custom software; data in ASCII files and available on diskette.</p> <p>4h. Output Format(s) (tables, maps, etc.) Tables.</p> <p>5. Restrictions and Conditions A written request for data is required.</p> <p>6. Price Information Depends on request, cost recovery policy.</p> <p>7. Corresponding Printed Sources Some salmon data are used in preparing Canadian Atlantic Fisheries Scientific Advisory Committee documents and other data are published in the Department's technical report series.</p> <p>8. Languages The reports are in English; the database is mostly numbers.</p> <p>9. User Aids Available None.</p> <p>10. Keywords Biota; Fish; Fish populations; Fisheries; New Brunswick; Salmon.</p> <p>11. Additional Information Site codes are based on the Division's own numbering scheme.</p>	<p>1 Datafile Name(s) Not applicable.</p> <p>2a Summary Description of Contents Projects in the Gulf of St.Lawrence region referred to the Department by federal and provincial governments and non-governmental regulatory agencies for comment concerning possible environmental impacts on fish habitat.</p> <p>2b. Purpose of the Database To monitor and assess projects potentially having an impact on fish habitat.</p> <p>3a. Name and Address of Responsible Organization Habitat Management Division, Fisheries and Habitat Management Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6.</p> <p>3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Legault (506) 851-6221</p> <p>3c. Access Mechanisms Through the responsible organization.</p> <p>4a. Variables Included (summarized if extensive)</p> <ul style="list-style-type: none"> - applicant and project type - location (latitude, longitude, UTM) - river/bay of impact - status of project (open, closed). <p>4b. Geographic Coverage Portions of the Atlantic Provinces bordering on the Gulf of St.Lawrence.</p> <p>4c. Data Acquisition Method(s) From the provincial governments. They receive information from project proponents.</p> <p>4d. Geographic Unit(s) of Measurement Individual projects referenced by latitude, longitude, UTM grid.</p> <p>4e. Period of Record 1980 - present.</p> <p>4f. Update Frequency Daily.</p> <p>4g. Database Hardware/Software Configuration IBM compatible microcomputer with KNOWLEDGEMAN software and MACINTOSH computer with 4TH DIMENSION DBMS.</p> <p>4h. Output Format(s) (tables, maps, etc.) Tables.</p> <p>5. Restrictions and Conditions None.</p> <p>6. Price Information No charge.</p> <p>7. Corresponding Printed Sources None.</p> <p>8. Languages The database is in English.</p> <p>9. User Aids Available None.</p> <p>10. Keywords Aquatic ecosystems; Atlantic; Environmental impact; Fish; Fish habitat; Gulf of St. Lawrence; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island.</p> <p>11. Additional Information None.</p>

Gulf Region Commercial Snow Crab Fishery

- 1 **Datafile Name(s)** One for each year.
- 2a **Summary Description of Contents** Data on catch and effort for the snow crab fishery in the Gulf of St. Lawrence.
- 2b **Purpose of the Database** To monitor snow crab catches for fisheries management.
- 3a **Name and Address of Responsible Organization** Invertebrate Division, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 9B6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gerard Conan (506) 857-6208 Mr. Elmer Wade (506) 857-6210
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - date (catch, landing)
 - catch weight (kg)
 - number of traps
 - time fished (total hours, days)
 - depth
- 4b **Geographic Coverage** Gulf of St. Lawrence.
- 4c **Data Acquisition Method(s)** Data collected from fishermen and staff onshore.
- 4d **Geographic Unit(s) of Measurement** Catch located by LORAN C bearings
- 4e **Period of Record** 1981 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** HP 3000 computer with VIEW 3000 software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, maps
- 5 **Restrictions and Conditions** Data on individual fishermen/vessels are confidential, summarized data are available.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Annual Canadian Atlantic Fisheries Scientific Advisory Committee documents - Gulf Region Snow Crab Fishery Stock Assessment
- 8 **Languages** The reports and database are in English
- 9 **User Aids Available** None
- 10 **Keywords** Arthropods; Atlantic; Crab; Fisheries; Gulf of St. Lawrence; Shellfish
- 11 **Additional Information** None.

Lobster Fishing Effort Aerial Survey Data

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Distribution of lobster trap buoys in the Gulf of St. Lawrence and the Northumberland Strait
- 2b **Purpose of the Database** To determine the level of fishing effort for management purposes.
- 3a **Name and Address of Responsible Organization** Invertebrate Division, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 9B6
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Don Maynard (506) 857-6212
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - buoy location (LORAN C bearings; latitude, longitude)
 - date
- 4b **Geographic Coverage** Northumberland Strait, Gulf of St. Lawrence
- 4c **Data Acquisition Method(s)** Aerial surveys
- 4d **Geographic Unit(s) of Measurement** Buoys located by LORAN C bearings, latitude, longitude
- 4e **Period of Record** 1983, 1984, 1985
- 4f **Update Frequency** Uncertain
- 4g **Database Hardware/Software Configuration** Paper file; data also on magnetic tape
- 4h **Output Format(s) (tables, maps, etc.)** Maps (in report)
- 5 **Restrictions and Conditions** None
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources**
 1. *An Aerial Survey of Fishing Effort in the Lobster Fishery of Northern Northumberland Strait* Canadian Atlantic Fisheries Scientific Advisory Committee Research Document 83/28, 1983
 2. *An Aerial Survey of Fishing Effort in the Lobster Fishery of Northern Northumberland Strait: Annual Variations and Seasonal Variation of the Spatial Distributions* Canadian Atlantic Fisheries Scientific Advisory Committee Research Document 84/96, 1984
- 8 **Languages** The database is numbers
- 9 **User Aids Available** None
- 10 **Keywords** Arthropods; Atlantic; Fisheries; Gulf of St. Lawrence; Lobster; Shellfish
- 11 **Additional Information** None

Lobster Movement Database

- 1 **Datafile Name(s)** One per area (Nova Scotia, New Brunswick, Prince Edward Island)
- 2a. **Summary Description of Contents** Data on lobster movement in the Gulf of St. Lawrence from mark and recapture studies.
- 2b. **Purpose of the Database** To monitor the movement of lobsters for fishery management.
- 3a. **Name and Address of Responsible Organization** Invertebrate Division, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 9B6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - each lobster released: location, tag number, date, length, health, sex
 - each lobster recaptured: location, tag number, date, length, health, sex; distance moved; angle of travel; growth
- 4b. **Geographic Coverage** Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** 10,000 tagged lobsters released per year; lobsters trapped annually.
- 4d. **Geographic Unit(s) of Measurement** Individual lobster locations referenced by LORAN C bearings.
- 4e. **Period of Record** 1981 - present.
- 4f. **Update Frequency** Continually.
- 4g. **Database Hardware/Software Configuration** HP 3000 computer with VIEW 3000 software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Data are reported in Canadian Atlantic Fisheries Scientific Advisory Committee research documents (1982 - 1987).
8. **Languages** The reports and database are in English.
9. **User Aids Available** *Data Entry Guide*.
10. **Keywords** Arthropods; Atlantic; Fisheries; Gulf of St. Lawrence; Lobster.
11. **Additional Information**
 1. 1988 report - *Preliminary Results of Lobster Minimum Carapace Size Increase Program in the Gulf of St. Lawrence, Cape Breton, Nova Scotia*.
 2. Maps show rosettes giving the percentage of time the lobsters move in a given direction.
 3. About 30% of the lobsters released one year are recaptured the following year.

Phytoplankton Water-Watch

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Regional database on phytoplankton concentrations.
- 2b. **Purpose of the Database** Early detection of phytoplankton which can generate toxins which may be harmful when imbibed by molluscan shellfish.
- 3a. **Name and Address of Responsible Organization** Inspection Branch, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 8J6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John McLean (506) 851-6571 FAX: (506) 851-2086
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location of samples
 - phytoplankton/l (conc.) of selected species in water
- 4b. **Geographic Coverage** Gulf of St. Lawrence.
- 4c. **Data Acquisition Method(s)** DFO staff and labs.
- 4d. **Geographic Unit(s) of Measurement** Shellfish growing areas (84).
- 4e. **Period of Record** 1990 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** IBM - PC based microcomputers, Q & A software and word processing.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Conditional access.
6. **Price Information** Not applicable.
7. **Corresponding Printed Sources** Not applicable.
8. **Languages** English and French.
9. **User Aids Available** Not applicable.
10. **Keywords** Health; Molluscs; Phytoplankton; Plankton; Shellfish; Toxins; Water.
11. **Additional Information** None.

PSP and Domoic Acid in Shellfish

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Regional database - commercial wild and cultured harvest sites - measurements of PSP and ASP.
- 2b. **Purpose of the Database** To prevent the marketing of molluscan shellfish containing toxic levels of PSP and ASP.
- 3a. **Name and Address of Responsible Organization** Inspection Branch, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 8J6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John McLean (506) 851-6571 FAX: (506) 851-2086
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location of sample
 - name of aquaculturist
 - lease number, etc.
- 4b. **Geographic Coverage** Gulf Region and imported products.
- 4c. **Data Acquisition Method(s)** DFO staff and labs.
- 4d. **Geographic Unit(s) of Measurement** Identified growing areas.
- 4e. **Period of Record** 1988 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** IBM - PC based microcomputers, Q & A software and word processing.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables - confidential reports.
5. **Restrictions and Conditions** Restricted access.
6. **Price Information** Not applicable.
7. **Corresponding Printed Sources** Not applicable.
8. **Languages** English and French.
9. **User Aids Available** Not applicable.
10. **Keywords** Aquaculture; Health; Molluscs; Shellfish; Toxins.
11. **Additional Information** None.

Sea Sampling for the Lobster Gulf Fishery

1. **Datafile Name(s)** One for each year.
- 2a. **Summary Description of Contents** Data on distribution and biology of lobsters trapped commercially in the Gulf of St. Lawrence.
- 2b. **Purpose of the Database** To determine legal size limits for the lobster fishery
- 3a. **Name and Address of Responsible Organization** Invertebrate Division, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 9B6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - date, location, number of traps
 - lobster length, weight, health, sex
 - home port of fisherman
- 4b. **Geographic Coverage** Gulf of St. Lawrence
- 4c. **Data Acquisition Method(s)** Observers onboard vessels record data
- 4d. **Geographic Unit(s) of Measurement** Catch located by LORAN C bearing and vessel home port
- 4e. **Period of Record** 1982 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** HP 3000 computer with VIEW 3000 software
- 4h. **Output Format(s) (tables, maps, etc.)** Size - frequency histograms
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** Database is mostly numbers
9. **User Aids Available** None
10. **Keywords** Aquatic ecosystems, Arthropods; Atlantic; Fisheries, Gulf of St. Lawrence; Lobster, Marine
11. **Additional Information** None

FISHERIES AND OCEANS

Newfoundland Region

<i>Fisheries and Oceans Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
INVENTORY OF FISH DISEASES IN FRESHWATER FISH IN NEWFOUNDLAND	Mr. M. C. Mercer (709) 772-2027	164
NEWFOUNDLAND EXPERIMENTAL AQUATIC ECOLOGY DATABASE (EXPEC)	Mr. M. C. Mercer (709) 772-2027	164
NEWFOUNDLAND FISHERIES INSPECTION SERVICES BRANCH DATABASE	Ms. Joyce Noseworthy (709) 772-4424	165
NEWFOUNDLAND FOREIGN FISHING VESSEL OBSERVER PROGRAM DATABASE	Mr. Larry Cody (709) 772-5057	165
NEWFOUNDLAND FRESHWATER AND ANADROMOUS FISH DATABASE (FAFP)	Mr. M. C. Mercer (709) 772-2027	166
NEWFOUNDLAND GROUND FISH DATABASE (GFISH)	Mr. M. C. Mercer (709) 772-2027	166
NEWFOUNDLAND INVERTEBRATE DATA (INVERT)	Mr. M. C. Mercer (709) 772-2027	167
NEWFOUNDLAND PELAGIC FISH DATABASE (PELAG)	Mr. M. C. Mercer (709) 772-2027	167

Inventory of Fish Diseases in Freshwater Fish in Newfoundland

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** This is a list of diseases found to date in freshwater fishes in Newfoundland.
- 2b **Purpose of the Database** To catalogue the diseases identified in the province for evaluating programs involving the introduction or movement of fish.
- 3a **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. M. C. Mercer (709) 772-2027
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - disease
 - fish type and location
- 4b **Geographic Coverage** Newfoundland and Labrador.
- 4c **Data Acquisition Method(s)** Data collection through field monitoring of fish.
- 4d **Geographic Unit(s) of Measurement** Catalogued by rivers on the Island of Newfoundland.
- 4e **Period of Record** 1978 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Requests from outside the Branch must be in writing; Branch has first publication rights and results of analysis are to be shared with the Branch.
- 6 **Price Information** No charge for small requests; cost recovery for others.
- 7 **Corresponding Printed Sources** *An Inventory of Incidences of Fish Disease Organisms in Newfoundland and Labrador* (1988).
- 8 **Languages** Database and report are in English.
- 9 **User Aids Available** Complete listing of diseases.
- 10 **Keywords** Biota; Biotic response; Fish; Fish disease; Newfoundland.
- 11 **Additional Information** None.

Newfoundland Experimental Aquatic Ecology Database (EXPEC)

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A database on parameters that have an impact upon fish habitat in Newfoundland and Labrador.
- 2b **Purpose of the Database** To collect data for assessing the impact of water quality, ocean dumping and acid rain on fish habitat.
- 3a **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. M. C. Mercer (709) 772-2027
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - mercury concentration, stream discharge and ocean dumping (material, location amount, date, etc.)
- 4b **Geographic Coverage** Newfoundland and Labrador.
- 4c **Data Acquisition Method(s)** Data collected in the field by Department personnel; water quality and discharge data collected by Environment Canada; applications for ocean dumping permits via Environment Canada.
- 4d **Geographic Unit(s) of Measurement** In-house units, river coding system.
- 4e **Period of Record** Variable; late 1940's - present.
- 4f **Update Frequency** Variable, depending on dataset.
- 4g **Database Hardware/Software Configuration** VAX 8600 computer with custom software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Requests from outside the Branch must be in writing; Branch has first publication rights and results of analyses are to be shared with the Branch.
- 6 **Price Information** No charge for small request; cost recovery for others.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** The reports and database are in English.
- 9 **User Aids Available** Complete coding specifications and file labels are available.
- 10 **Keywords** Aquatic ecosystems; Acid precipitation; Fish; Labrador; Newfoundland; Ocean dumping; Water quality.
- 11 **Additional Information** The studies on the effects of acid rain are part of a national assessment program being coordinated by Department of Fisheries and Oceans in Winnipeg.

Newfoundland Fisheries Inspection Services Branch Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on contaminant levels in fish and shellfish in Newfoundland and Labrador.
- 2b. **Purpose of the Database** To monitor water quality and contaminant levels in freshwater and marine fish and shellfish for fisheries and plant management purposes.
- 3a. **Name and Address of Responsible Organization** Inspection Services Branch, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Joyce Noseworthy (709) 772-4424
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - location
 - mercury (freshwater fish, mussels, marine species; 1977 - present)
 - heavy metals (water - 1978, mussels - 1988, other species -1971, 1978)
 - organic contaminants (numerous species - 1983)
 - radioactivity (salted cod 1988)
- 4b. **Geographic Coverage** Newfoundland Region; 15-20 stations for mercury, 60 stations for bacteria.
- 4c. **Data Acquisition Method(s)** Regular monitoring programs and short term studies carried out by Department personnel. Some data provided by Environmental Protection, Environment Canada.
- 4d. **Geographic Unit(s) of Measurement** Various
- 4e. **Period of Record** Data collected 1960 - present; some parameters were collected for this entire period, most were gathered for a shorter period.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Some data in paper files, other on IBM compatible microcomputer.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** In some cases, data may have been collected at industry request. Permission may have to be granted for its use
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is in English.
9. **User Aids Available** None.
10. **Keywords** Aquatic ecosystems; Contaminants; Fish; Fisheries; Newfoundland; Shellfish
11. **Additional Information**
 1. Most of the bacterial and some of the mercury data are on computer. The remaining data will likely be added within a year. Eventually, the database will be on a mainframe computer, but the type has not yet been determined.
 2. Mercury and bacteriological data are collected through a regular monitoring program while other data are collected for specific studies.

Newfoundland Foreign Fishing Vessel Observer Program Database

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Biological data for fish caught by foreign vessels in the marine waters around Newfoundland and Labrador
- 2b. **Purpose of the Database** To provide data for fish stock assessment and the establishment of traditional fishing patterns for use in claims settlements
- 3a. **Name and Address of Responsible Organization** Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Larry Cody (709) 772-5057
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - nation
 - month
 - fish species
 - length
 - frequency
 - age
 - growth
 - conversion factors (guttled to whole weight)
 - menstics
 - morphometrics
 - location
- 4b. **Geographic Coverage** Newfoundland and Labrador manne waters
- 4c. **Data Acquisition Method(s)** Data from observers aboard foreign fishing vessels
- 4d. **Geographic Unit(s) of Measurement** NAFO zone, latitude, longitude, in-house unit
- 4e. **Period of Record** Late 1940s - present (variable depending upon dataset)
- 4f. **Update Frequency** Daily to annually, depending upon dataset
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Requests from outside the Branch must be in writing. Branch has first publication rights and results of analyses are to be shared with the Branch
6. **Price Information** No charge for small requests, cost recovery for others
7. **Corresponding Printed Sources** Data from this database are published as journal articles, Departmental reports, and research documents from the International Council for the Exploration of the Seas, the Northwest Atlantic Fisheries Organization and the Canadian Atlantic Fisheries Scientific Advisory Committee
8. **Languages** The database and reports are in English
9. **User Aids Available** Complete coding specifications and file labels are available
10. **Keywords** Aquatic ecosystems, Fish, Fisheries, International, Labrador Newfoundland
11. **Additional Information** None

Newfoundland Freshwater and Anadromous Fish Database (FAFP)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Biological and harvest data for freshwater and anadromous fish species in Newfoundland and Labrador.
- 2b. **Purpose of the Database** To obtain data for use in fisheries management.
- 3a. **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. M. C. Mercer (709) 772-2027
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - fish species (salmon, char, stickleback)
 - zooplankton (biomass)
 - fish characteristics
 - water quality data
 - location
- 4b. **Geographic Coverage** Newfoundland and Labrador.
- 4c. **Data Acquisition Method(s)** Field data from fishway counts, fishermen and catch sampling.
- 4d. **Geographic Unit(s) of Measurement** River coding system, longitude, latitude.
- 4e. **Period of Record** Variable; late 1940's - present, depending on the dataset.
- 4f. **Update Frequency** Variable, depending on dataset.
- 4g. **Database Hardware/Software Configuration** VAX 8600 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Requests from outside the Branch must be in writing; Branch has first publication rights and results of analyses are to be shared with the Branch.
6. **Price Information** No charge for small requests, cost recovery for others.
7. **Corresponding Printed Sources** Data are published as journal articles, Departmental reports and research documents from the Canadian Atlantic Fisheries Scientific Advisory Committee.
8. **Languages** The database and reports are in English.
9. **User Aids Available** Complete coding specifications and file labels are available.
10. **Keywords** Anadromous; Aquatic ecosystems; Fish; Fisheries; Freshwater; Labrador; Newfoundland; Salmon.
11. **Additional Information** A stream catalogue describes fish habitat (occurrence of gravel, spawning and rearing areas, obstructions, productive capability) for most of the major rivers in the region.

Newfoundland Groundfish Database (GFISH)

1. **Datafile Name(s)** Three files for each species (research vessels surveys, plant sampling, incidental sampling).
- 2a. **Summary Description of Contents** Data on biology, catch and effort for recreational and commercial fisheries in the Newfoundland-Labrador region.
- 2b. **Purpose of the Database** To assess the fish stocks for fisheries management purposes.
- 3a. **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. M. C. Mercer (709) 772-2027
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (cod, rock cod, haddock, plaice, yellowtail flounder, witch flounder, turbot, redfish, halibut, grenadier, skate)
 - age
 - growth
 - weight analysis
 - length
 - catch effort
 - food/feeding behaviour
 - oogenesis
 - tagging data
 - sex
 - parasites
 - location
- 4b. **Geographic Coverage** Newfoundland and Labrador, inshore and offshore waters.
- 4c. **Data Acquisition Method(s)** Data collected through research vessel surveys, plant sampling, incidental sampling.
- 4d. **Geographic Unit(s) of Measurement** NAFO zones, latitude, longitude, in-house units.
- 4e. **Period of Record** Variable; 1940's - present.
- 4f. **Update Frequency** Variable, depending on dataset.
- 4g. **Database Hardware/Software Configuration** VAX 8600 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Requests from outside the Branch must be in writing; Branch has first publication rights and results of analysis are to be shared with the Branch.
6. **Price Information** No charge for small requests; cost recovery for others.
7. **Corresponding Printed Sources** Data are published as journal articles, Departmental reports and research documents issued by the Canadian Atlantic Fisheries Scientific Advisory Committee, International Council for the Exploration of the Seas, North Atlantic Fisheries Organization.
8. **Languages** The database and reports are in English.
9. **User Aids Available** Complete coding specifications and file labels are available.
10. **Keywords** Aquatic ecosystems; Cod; Fish; Fisheries; Groundfish; Labrador; Newfoundland.
11. **Additional Information** None.

Newfoundland Invertebrate Data (INVERT)

1. **Datafile Name(s)** Three files for each species (research vessel surveys, plant sampling, incidental sampling).
- 2a. **Summary Description of Contents** Biological, catch and effort data for the invertebrate fisheries of Newfoundland and Labrador.
- 2b. **Purpose of the Database** To provide data for invertebrate stock assessment for fisheries management purposes.
- 3a. **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, Box 5667, St. John's, Newfoundland, A1C 5X1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. M. C. Mercer (709) 772-2027
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species (shrimps, crab, scallop, squid, octopus)
 - squid (catch, effort, length, weight, sex)
 - scallop (meat weights, catch)
 - shrimp (length, frequency, catch)
 - location, date
- 4b. **Geographic Coverage** Newfoundland and Labrador marine waters.
- 4c. **Data Acquisition Method(s)** Data collected through research vessel surveys, plant sampling, incidental sampling.
- 4d. **Geographic Unit(s) of Measurement** NAFO zones, latitude, longitude, in-house units
- 4e. **Period of Record** Variable, late 1940's - present.
- 4f. **Update Frequency** Variable, depending on dataset
- 4g. **Database Hardware/Software Configuration** VAX 8600 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Requests from outside the Branch must be in writing, Branch has first publication rights and results of analyses are to be shared with the Branch
6. **Price Information** No charge for small requests; cost recovery for others
7. **Corresponding Printed Sources** Data are published as journal articles, Departmental manuscript and data reports, and research documents from the Northwest Atlantic Fisheries Organization and the Canadian Atlantic Fisheries Scientific Advisory Committee
8. **Languages** The reports and database are in English.
9. **User Aids Available** Complete coding specifications and file labels are available
10. **Keywords** Aquatic ecosystems, Arthropods; Crab; Fish; Fisheries; Labrador; Lobster, Newfoundland; Molluscs; Scallop; Shrimp.
11. **Additional Information** None.

Newfoundland Pelagic Fish Database (PELAG)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Largely biological data on pelagic fish and plankton collected in Newfoundland and Labrador waters
- 2b. **Purpose of the Database** To provide data for fish stock assessment and fisheries management
- 3a. **Name and Address of Responsible Organization** Science Branch, Department of Fisheries and Oceans, Box 5667, St John's Newfoundland, A1C 5X1
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. M. C. Mercer (709) 772-2027
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - species (capelin, herring, plankton, mackerel, sand lance)
 - fish size, sex, age
- 4b. **Geographic Coverage** Newfoundland and Labrador waters
- 4c. **Data Acquisition Method(s)** Data collected through research vessel surveys, fish plant sampling and incidental sampling
- 4d. **Geographic Unit(s) of Measurement** NAFO zones, latitude, longitude, in-house units
- 4e. **Period of Record** Variable, late 1940s to present, depending upon dataset
- 4f. **Update Frequency** Variable, depending on dataset
- 4g. **Database Hardware/Software Configuration** VAX 8600 computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Requests from outside the Branch must be in writing, Branch has first publication rights and results of analysis are to be shared with the Branch
6. **Price Information** No charge for small requests, cost recovery for others
7. **Corresponding Printed Sources** Data are published as journal articles. Departmental reports, Research documents issued by the Northwest Atlantic Fisheries Organization and the Canadian Atlantic Fisheries Scientific Advisory Committee
8. **Languages** The reports and database are in English
9. **User Aids Available** Complete coding specifications and files labels are available
10. **Keywords** Aquatic ecosystems, Fish, Fisheries, Herring, Labrador, Newfoundland
11. **Additional Information** None

FORESTRY CANADA

<i>Forestry Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ACID RAIN IMPACT ASSESSMENT DATABASE	Ms. Katja Power (603) 589-2880	170
ACID RAIN NATIONAL EARLY WARNING SYSTEM (ARNEWS)	Dr. Ben Moody (613) 997-1107 Dr. J. Peter Hall (613) 997-1107	170
FOREST BIOMASS INVENTORY	Ms. Katja Power (613) 589-2880	171
FOREST FIRE STATISTICS DATABASE	Mr. Gordon Ramsey (613) 598 2880	171
FOREST INSECT AND DISEASE INFORMATION SYSTEM (FIDS)	Dr. Ben Moody (613) 997 1107	172
FOREST INSECT PEST PARASITE DATABASE	Mr. Lee Humble (604) 388 0600 Dr. Ben Moody (613) 997-1107	172
FOREST INVENTORY 1986	Ms. Katja Power (613) 589-2880	173
FOREST MANAGEMENT STATISTICS OF CANADA	Mr. James J. Farrell (705) 949-9461 Ms. Kathy L. Campbell (705) 949-9461	173
FOREST PEST INFESTATION MAPS	Dr. Ben Moody (613) 997-1107	174
FOREST RESOURCE AND DEPLETION ESTIMATION SYSTEM	Dr. Ben Moody (613) 997 1107	174
MICROCOMPUTER PERMANENT FOREST SAMPLE PLOT CATALOGUE	Mr. Dieter Kuhnke (403) 435 7271	175
NATIONAL FORESTRY DATABASE PROGRAM	Ms. Suzanne Gailloux (613) 997-1107 Mr. Brian Haddon (613) 997-1107	175
PRAIRIE-NORTHWEST TERRITORIES FORESTRY DATA BANK AND ARCHIVES	Mr. Dieter Kuhnke (403) 435-7271	176
PRAIRIE-NORTHWEST TERRITORIES FORESTRY INDUSTRY DATABASE	Mr. Dieter Kuhnke (403) 435 7271	176
SILVICULTURE STATISTICS	Mr. Dieter Kuhnke (403) 435-7271	177
VEGETATION MANAGEMENT ACTIVITIES FOR FORESTRY	Dr. Ed Oswald (604) 363-0687 Dr. Peter Hall (819) 997-1107	177

Acid Rain Impact Assessment Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on acid rain deposition rates and effect factors for species in eastern Canada.
- 2b. **Purpose of the Database** To predict the risk of acid rain to forested areas of eastern Canada.
- 3a. **Name and Address of Responsible Organization** Petawawa National Forest Institute, Forestry Canada, Box 2000, Chalk River, Ontario, K0J 1J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - rainfall (5-year mean annual)
 - pH
 - deposition rates (sulphates, nitrates, kg/ha/yr)
- 4b. **Geographic Coverage** Canada, east of Manitoba.
- 4c. **Data Acquisition Method(s)** Rainfall data from Atmospheric Environment Service.
- 4d. **Geographic Unit(s) of Measurement** Grid cells.
- 4e. **Period of Record** Rain data 1983 -1988.
- 4f. **Update Frequency** Not planned.
- 4g. **Database Hardware/Software Configuration** VAX 780 computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps, Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Acid precipitation; Biotic response; Contaminants; Forests.
11. **Additional Information** This database is in preparation.

Acid Rain National Early Warning System (ARNEWS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on tree growth and condition and acid rain levels
- 2b. **Purpose of the Database** To monitor forest health and assess the impacts of environmental stress.
- 3a. **Name and Address of Responsible Organization** Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Ben Moody, Dr. J. Peter Hall, Forestry Canada, Ottawa, Ontario K1A 1G5
Telephone: (613) 997-1107 FAX: (613) 990-3437
- 3c. **Access Mechanisms** Through the contact persons.
- 4a. **Variables Included (summarized if extensive)**
 - tree (species, age, size, individual location)
 - soils
 - foliage (nutrients - nitrogen, potassium, magnesium, phosphorus)
 - annual tree assessment (condition, pests, acid rain effects)
 - rainfall, rainfall pH
 - growth (tree rings)
 - ground vegetation
 - woody species regeneration
 - tree seed crops
- 4b. **Geographic Coverage** 103 sample plots, in major commercial forestry communities across Canada.
- 4c. **Data Acquisition Method(s)** Surveys conducted annually and every five years by the Department.
- 4d. **Geographic Unit(s) of Measurement** Plots located by UTM grid.
- 4e. **Period of Record** 1984 - present.
- 4f. **Update Frequency** Annually or every five years.
- 4g. **Database Hardware/Software Configuration** VAX 750 computer with INGRES relational database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps.
5. **Restrictions and Conditions** See contact person.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** D'Eon, S. (1989). *Acid Rain National Early Warning System (ARNEWS) Plot Network*. Information Report PI-X-91.
8. **Languages** The report and database are in English; a French edition of the report is planned; the user aid is in both languages.
9. **User Aids Available** Magasi, L.P. (1988). *Acid Rain National Early Warning System (ARNEWS) Manual on Plot Establishment and Monitoring*. Information Report DPC-X-25.
10. **Keywords** Acid precipitation; Biotic response; Forests.
11. **Additional Information** None.

Forest Biomass Inventory

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national inventory of forest biomass in Canada.
- 2b. **Purpose of the Database** To inventory biomass as a potential future fuel (ENFOR program).
- 3a. **Name and Address of Responsible Organization** Forest Inventory Project, Petawawa National Forest Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K0J 1J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - land status
 - ownership
 - qualities (site class, stand age)
 - data source (type of inventory)
 - productive, unproductive
 - site quality (potential production)
 - stocking (stocked, unstocked)
 - disturbance (cut over, burned, pest damage)
 - age (maturity, regeneration)
 - forest type (hardwood, mixed wood, softwood)
 - access
 - area (ha)
 - biomass (merchantable trees); total above ground; per cent stem wood, stump wood, stump bark, stem bark, top, live branches, foliage
 - biomass submerchantable trees
 - year of inventory
- 4b. **Geographic Coverage** All provinces and territories.
- 4c. **Data Acquisition Method(s)** Biomass of forest stands is estimated from provincial government inventory data.
- 4d. **Geographic Unit(s) of Measurement** Grid cells
- 4e. **Period of Record** 1984.
- 4f. **Update Frequency** No update planned
- 4g. **Database Hardware/Software Configuration** VAX 780 computer with ARC/INFO, FORTRAN, SAS.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, graphics
5. **Restrictions and Conditions** None.
6. **Price Information** No charge
7. **Corresponding Printed Sources** Bonnor, G.M. (1985). *Inventory of Forest Biomass in Canada*.
8. **Languages** The report is in both French and English; the database is in English
9. **User Aids Available** None
10. **Keywords** Biomass; Forests; GIS; Trees.
11. **Additional Information** Report is available from the Publications Distribution Office at the Institute.

Forest Fire Statistics Database

1. **Datafile Name(s)** Separate files for each province, year, national park
- 2a. **Summary Description of Contents** Statistics on forest fires, losses and fire control expenditures summarized by province/territory for Canada
- 2b. **Purpose of the Database** To monitor trends in forest fire occurrence, to provide data for research and fire management budget preparation
- 3a. **Name and Address of Responsible Organization** Petawawa National Forestry Institute, P.O. Box 2000, Chalk River, Ontario, K0J 1J0
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gordon Ramsey (613) 598-2880 FAX: (613) 589-2275
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - fire cause, human (recreation, railroad, forest industry; natural (lightning)
 - number of fires, area burned
 - fire size class
 - month
 - location (Canada, province, territory)
 - losses (land type, merchantable timber)
 - fire control expenditures (actual, budgeted)
 - suppression zones (location)
- 4b. **Geographic Coverage** National
- 4c. **Data Acquisition Method(s)** Data collected from the Provincial and Territorial governments and national parks
- 4d. **Geographic Unit(s) of Measurement** Province, territory
- 4e. **Period of Record** Data from 1990 - present; computerized post-1960
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** VAX 780 computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** *Annual Canadian Forest Fire Statistics* (from 1940's - present)
8. **Languages** Reports are bilingual, database is in English
9. **User Aids Available** *Canadian Forest Fire Statistics Database User's Manual* (1986)
10. **Keywords** Forest fires; Forests; Lightning
11. **Additional Information** This database contains summary information, details can be obtained from the Provincial/Territorial governments

Forest Insect and Disease Information System (FIDS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database on the distribution of forest pests and pest hosts in Canada.
- 2b. **Purpose of the Database** To survey forest pest conditions in Canada.
- 3a. **Name and Address of Responsible Organization** Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5
Telephone: (613) 997-1107 FAX: (613) 990-3437
- 3c. **Access Mechanisms** Through the contact person.
- 4a. **Variables Included (summarized if extensive)**
 - pest species
 - forest stand (dominant species, history, forest type, maturity, age, basal area, height)
 - tree collection (species, place in crown, alive, dead)
 - location (nearest town, UTM, administrative unit)
 - collection methods and collector
 - date
- 4b. **Geographic Coverage** National, 1.3 million records.
- 4c. **Data Acquisition Method(s)** Data collected by federal and provincial governments and industry.
- 4d. **Geographic Unit(s) of Measurement** One km² or 10 km² areas affected, registered by UTM coordinates for one corner of these areas.
- 4e. **Period of Record** 1940 - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** VAX 750 computer with INGRES relational database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps.
5. **Restrictions and Conditions** Determined by Regional Offices.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Forest Insect and Disease Conditions in Canada*. Other publications concern specific insect groups.
8. **Languages** The first report and manual are bilingual; the other reports and the database are in English.
9. **User Aids Available** *FIDS Infobase: The Forest Insect and Disease Information System*. Information report PI-X-65 (1986).
10. **Keywords** Forests; Forestry; Insects; Pest hosts; Pesticides; Pests.
11. **Additional Information** The user aid is now out of print; it may be updated.

Forest Insect Pest Parasite Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database of parasites found on forest insect pests.
- 2b. **Purpose of the Database** To inventory the occurrence of forest insect pest parasites.
- 3a. **Name and Address of Responsible Organization** Pacific Forestry Centre, Forestry Canada, 506 Burnside Road, Victoria, B.C., V8Z 1M5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Lee Humble (604) 388-0600
Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5
Telephone: (613) 997-1107 FAX: (613) 990-3437
- 3c. **Access Mechanisms** Through either contact person.
- 4a. **Variables Included (summarized if extensive)**
 - parasite species, number of parasites (alive, dead)
 - emergence dates
 - development stage
 - additional information (see FIDS Infobase database)
- 4b. **Geographic Coverage** B.C. and Yukon.
- 4c. **Data Acquisition Method(s)** Parasites taken from pest insects collected during pest surveys conducted by the federal and provincial governments and industry.
- 4d. **Geographic Unit(s) of Measurement** Collection locations referenced to 10 km² blocks prior to 1986, 1 km² blocks thereafter.
- 4e. **Period of Record** 1800's - present.
- 4f. **Update Frequency** Daily.
- 4g. **Database Hardware/Software Configuration** VAX 750 computer with INGRES relational database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps.
5. **Restrictions and Conditions** Contact regional offices of Forestry Canada.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None (see 11).
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Forests; Insects; Parasites; Pests.
11. **Additional Information**
 1. A host-parasite list is being prepared.
 2. There are plans to expand the database to include northern Canada and Newfoundland parasite information.
 3. The parasite data are for pest insects collected and entered in the FIDS Infobase database (Forestry Canada).
 4. The information is held at the Petawawa National Forestry Institute at Petawawa, but data should be accessed through the regional offices.

Forest Inventory 1986

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national inventory of forest resources in Canada as of 1986
- 2b. **Purpose of the Database** To provide information about Canada's forests to the public.
- 3a. **Name and Address of Responsible Organization** Forest Inventory Project, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K0J 1J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - ownership (native, federal, provincial, private), status
 - land class (water, land, productive, non-productive, forest, non-forested)
 - site quality
 - stocking class
 - age class (20 year classes)
 - maturity
 - forest type
 - predominant genus
 - volume (m³/ha; 19 species groups)
 - area (ha)
 - maturity class
 - auxiliary information includes productivity (mean annual increment)
- 4b. **Geographic Coverage** All provinces and territories in Canada
- 4c. **Data Acquisition Method(s)** Data from provincial governments Source inventories, mostly.
- 4d. **Geographic Unit(s) of Measurement** 43,000 grid cells of varying sizes, dependent on region, typically 100 km².
- 4e. **Period of Record** 1986.
- 4f. **Update Frequency** New database is created every 5 years.
- 4g. **Database Hardware/Software Configuration** VAX 780 and SUN workstation computer with ARC/INFO, FORTRAN, SAS, INGRES.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, graphics.
5. **Restrictions and Conditions** Some.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Canada's Forest Inventory, 1986* (1988). *Canada's Forest Inventory 1986 - Technical Supplement* (1989).
8. **Languages** The first report is in French and English, the second is in English with a French version in preparation, and the database is in English with French labelling options
9. **User Aids Available** None
10. **Keywords** Forest inventory; Forest type; Forests; GIS; Land; Trees
11. **Additional Information** The reports are available from the Publications Distribution Office at the Institute.

Forest Management Statistics of Canada

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A national database on expenditures on forest management in Canada summarized by province or territory.
- 2b. **Purpose of the Database** To determine the level of forest management activities in order to direct policy formulation, resource development agreements with the provinces and research programs
- 3a. **Name and Address of Responsible Organization** Great Lakes Forestry Centre, Forestry Canada, Box 490, Sault Ste Marie, Ontario, P6A 5M7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. James J. Farrell (705) 949-9461 Ms. Kathy L. Campbell (705) 949-9461
FAX: (705) 759-5700
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - expenditure type (silviculture, protection, resource access, inventory, research, timber management, administration/other)
 - expenditure (total annual dollars)
 - agency (federal, provincial, industry)
- 4b. **Geographic Coverage** National/provincial
- 4c. **Data Acquisition Method(s)** Data obtained from Forestry Canada regional offices, provinces and the Canadian Pulp and Paper Association
- 4d. **Geographic Unit(s) of Measurement** Expenditures summarized by province, territory
- 4e. **Period of Record** 1977 - present
- 4f. **Update Frequency** Every two years to date, annual update planned
- 4g. **Database Hardware/Software Configuration** NEC 386 SX with LOTUS 1-2-3
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** *Forest Management Expenditures in Canada 1983 - 1985*. *Forest Management Statistics for Canada, 1977 - 1988*
8. **Languages** The database is in English, the reports are bilingual
9. **User Aids Available** The previously noted reports
10. **Keywords** Forest management, Forestry; Forests
11. **Additional Information** None

Forest Pest Infestation Maps

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on the occurrence of major pest species in major forested areas across Canada.
- 2b. **Purpose of the Database** To monitor the annual spatial distribution of major forest insect pests.
- 3a. **Name and Address of Responsible Organization** Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5
Telephone: (613) 997-1107 FAX: (613) 990-3437
- 3c. **Access Mechanisms** Through the contact person.
- 4a. **Variables Included (summarized if extensive)**
 - outbreak severity and location (mapped extent)
 - pest species
 - control (methods, extent)
- 4b. **Geographic Coverage** Major forested areas in all provinces.
- 4c. **Data Acquisition Method(s)** Mainly aerial and some ground surveys conducted by the Department and provincial governments.
- 4d. **Geographic Unit(s) of Measurement** Polygons of outbreak areas varying in size from 100 hectares.
- 4e. **Period of Record** 1950's - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer and VAX 780 computer with ARC/INFO software.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps.
5. **Restrictions and Conditions** Contact regional offices.
6. **Price Information** No charge for report or data access.
7. **Corresponding Printed Sources** The data are part of the Forest Insect and Disease Survey Information System annual report.
8. **Languages** The report is bilingual; the database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** Forestry; Forests; GIS; Insecticides; Pests; Pesticides.
11. **Additional Information**
 1. The Regional Offices prepare the digitized maps and send them to the Petawawa National Forestry Institute.
 2. The Pacific and Ontario regions also retain their own data.

Forest Resource and Depletion Estimation System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A national database describing forest pests, hosts and the occurrence of pest outbreaks.
- 2b. **Purpose of the Database** To estimate forest losses due to insect activity and disease to assess implications.
- 3a. **Name and Address of Responsible Organization** Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5
Telephone: (613) 997-1107 FAX: (613) 990-3437
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - pest (20 major species)
 - host distribution in Canada
 - outbreak (location, severity)
 - insect - host interactions
- 4b. **Geographic Coverage** All provinces of Canada (see 11).
- 4c. **Data Acquisition Method(s)** Data obtained from aerial surveys conducted by the Department and the Provinces, from the literature and from ground plot observation by the Department.
- 4d. **Geographic Unit(s) of Measurement** Outbreaks are georeferenced.
- 4e. **Period of Record** 1978 - 1987.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX 750 computer with INGRES relational database management system.
- 4h. **Output Format(s) (tables, maps, etc.)** Maps.
5. **Restrictions and Conditions** Determined by the regional offices.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Examples of maps: Spruce Budworm Host Inventory, Manitoba (1986); Volume Loss from Unrealized Growth 1983-1987, Manitoba; Impact of Spruce Budworm Defoliation, Ontario.
8. **Languages** The maps and database are in English; the user aid is bilingual.
9. **User Aids Available** *Quantifying Forest Depletion by Pests Using GIS and Database Technologies* (1989).
10. **Keywords** Forestry; Forests; Insects; trees; parasites; Pests.
11. **Additional Information** Data for Nova Scotia, Quebec and Manitoba are held at Chalk River while data for the other provinces are held in the regional offices.

Microcomputer Permanent Forest Sample Plot Catalogue

- 1 **Datafile Name(s)** Permanent plots, silviculture plots.
- 2a **Summary Description of Contents** A catalogue of forested sites set aside as permanent control plots or silvicultural plots in Manitoba, Alberta and Saskatchewan.
- 2b **Purpose of the Database** To maintain a current inventory of plots in the region for future growth and yield assessment and secondary research.
- 3a **Name and Address of Responsible Organization** Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Dieter Kuhnke (403) 435-7271
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - year plot was established
 - years remeasured
 - availability of soil information
 - slope
 - silvicultural methods
 - site holder
 - species
 - plot composition (species %)
- 4b **Geographic Coverage** About 4,500 plots in Manitoba, Alberta, Saskatchewan.
- 4c **Data Acquisition Method(s)** Plot information from federal and provincial governments and companies.
- 4d **Geographic Unit(s) of Measurement** Individual plots referenced by NTS and UTM grids
- 4e **Period of Record** Early 1900's - present for plot establishment
- 4f **Update Frequency** As sites resurveyed or new sites added.
- 4g **Database Hardware/Software Configuration** Data stored on VAX computer but available on IBM microcomputer disk.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** The database is in English
- 9 **User Aids Available** Microcomputer PSP Catalogue System User's Manual (1989)
- 10 **Keywords** Alberta; Forest growth; Forests; Manitoba; Saskatchewan; Trees
- 11 **Additional Information**
 1. Similar databases exist for New Brunswick, Quebec and B.C.
 2. Growth and yield data for the plots are held in a separate database (Tree Detail Database) on the mainframe computer with custom software

National Forestry Database Program

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Comprehensive database at the national level, with the emphasis on breadth of scope rather depth of detail
- 2b **Purpose of the Database** To permit a description of the level of activity in the forest resource sector in any period, and to mark changes in the resource itself
- 3a **Name and Address of Responsible Organization** Economic and Statistics Directorate, Forestry Canada, 75 Albert Street, Fourth Floor, Ottawa, Ontario, K1A 1G5
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Suzanne Gailloux (613) 997-1107 Mr. Brian Haddon (613) 997-1107
FAX: (613) 992-9201
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - forest inventory
 - annual allowable cut
 - timber harvest
 - other forest products
 - forest fire statistics
 - incidence of insect damage
 - silviculture statistics
 - forest management expenditures
 - government revenues
- 4b **Geographic Coverage** National
- 4c **Data Acquisition Method(s)** Administrative and survey data from provincial and federal forestry agencies
- 4d **Geographic Unit(s) of Measurement** Province and territory
- 4e **Period of Record** 1990 - present
- 4f **Update Frequency** Annually
- 4g **Database Hardware/Software Configuration** PC computer with DBASE IV software
- 4h **Output Format(s) (tables, maps, etc.)** Tables
- 5 **Restrictions and Conditions** None
- 6 **Price Information** No charge
- 7 **Corresponding Printed Sources** Planned annual compendium of national forestry statistics
- 8 **Languages** Bilingual
- 9 **User Aids Available** None
- 10 **Keywords** Forest inventory; Forest management; Forests; Forestry; Harvesting; Trees
- 11 **Additional Information** The National Forestry Database Program is an initiative of the Canadian Council of Forestry Ministers. It is a joint program of the provincial, territorial and federal forestry agencies

**Prairie-Northwest Territories
Forestry Data Bank and Archives**

- II **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A database describing management projects undertaken by Forestry Canada personnel in the Prairie Provinces and Northwest Territories.
- 2b. **Purpose of the Database** To maintain a permanent record of management projects initiated by Forestry Canada.
- 3a. **Name and Address of Responsible Organization** Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dieter Kuhnke (403) 435-7271
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- study name and type
 - location (description, geographic coordinates)
 - study synopsis
 - methods
 - herbicide used
 - data format
 - contacts
 - publications
 - keywords
- 4b. **Geographic Coverage** Prairie Provinces and Northwest Territories.
- 4c. **Data Acquisition Method(s)** Interviews with researchers, publication review.
- 4d. **Geographic Unit(s) of Measurement** Variable, by project.
- 4e. **Period of Record** Data 1920 - present; database initiated 1987.
- 4f. **Update Frequency** Periodically.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with DBASE and CLIPPER compiler.
- 4h. **Output Format(s) (tables, maps, etc.)** Text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Database available on diskette.
8. **Languages** Database is in English.
9. **User Aids Available** Forestry Data Bank and Archives - User's Manual.
10. **Keywords** Alberta; Forest management; Forestry; Harvesting; Manitoba; Northwest Territories; Prairies; Saskatchewan; Silviculture.
11. **Additional Information**
1. The project information is mailed out on two diskettes.
 2. It is hoped that users will insert their own studies into the database.

**Prairie-Northwest Territories
Forestry Industry Database**

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on production, harvest and equipment used in the forest industry for the Prairie Provinces and Northwest Territories.
- 2b. **Purpose of the Database** To provide current information on forestry company profiles.
- 3a. **Name and Address of Responsible Organization** Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dieter Kuhnke (403) 435-7271
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- company
 - location (latitude, longitude, UTM)
 - timber licences, leases
 - annual allowable cut (species, volume)
 - actual harvest (species, volume)
 - products (timber, pulp, etc.)
 - machinery (type, age)
 - number of employees
 - financial data
 - supply area (wood source)
- 4b. **Geographic Coverage** Prairie Provinces and Northwest Territories.
- 4c. **Data Acquisition Method(s)** Through personal communication and literature supplied by industry and provincial/territorial governments.
- 4d. **Geographic Unit(s) of Measurement** Individual companies referenced by latitude, longitude, UTM.
- 4e. **Period of Record** 1988 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** VAX computer using INGRES database software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Alberta; Forestry; Forests; Harvesting; Manitoba; Northwest Territories; Prairies; Saskatchewan; Silviculture.
11. **Additional Information** Database also has an economic parameter component, including general economic indicators and forestry-specific parameters.

Silviculture Statistics

1. **Datafile Name(s)** One for each province and forestry region.
- 2a. **Summary Description of Contents** A national survey of total annual hectareage under various silvicultural activities in Canada.
- 2b. **Purpose of the Database** To monitor silvicultural activities
- 3a. **Name and Address of Responsible Organization** Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Mr. Dieter Kuhnke (403) 435-7271
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - regeneration (natural, by man)
 - planting type (age, species)
 - stand tending (number of hectares)
 - site preparation (prescribed burning, herbicide, scarifying)
 - thinning, spacing
 - pruning, fertilizing
 - stand type, species
 - total cost
- 4b. **Geographic Coverage** National.
- 4c. **Data Acquisition Method(s)** From questionnaire sent to provincial and territorial governments.
- 4d. **Geographic Unit(s) of Measurement** Province/territory, forestry region
- 4e. **Period of Record** 1975 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** PC computer using DBASE IV software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Three annual information reports: *Silvicultural Statistics for Canada 1975-76 to 1979-80*, *1975-76 to 1982-83*, and an eleven year summary (microfiche copies available). A booklet was published in 1990 that incorporates forest management expenditures. In 1989, a leaflet describing silviculture in Canada was published for distribution to the general public and schools.
8. **Languages** Reports are in both English and French.
9. **User Aids Available** None.
10. **Keywords** Forestry; Forests; Silviculture; Trees.
11. **Additional Information**
 1. More details of silvicultural practices can be obtained from the provinces/territories.
 2. Both an annual and a five year (more interpretive) report are planned. Plans are to include management expenditures in these publications as well. The first annual report has been published.

Vegetation Management Activities for Forestry

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Descriptions of management activities carried out by Forestry Canada
- 2b. **Purpose of the Database** To inventory vegetation management activities and assess activity priority
- 3a. **Name and Address of Responsible Organization** Pacific Forestry Centre, 506 West Burnside Road, Victoria, B.C., V8Z 1M5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Dr. Ed Oswald (604) 363-0687
Dr. Peter Hall, Research, Forest Science Directorate, Forestry Canada, Ottawa, Ontario K1A 1G5 (819) 997-1107
- 3c. **Access Mechanisms** Through either contact person
- 4a. **Variables Included (summarized if extensive)**
 - for each management activity
 - title
 - researchers
 - objectives
 - location (nearest town)
 - site history
 - application of treatments
 - soils
 - experimental design
 - measurements
 - results
 - conclusion
- 4b. **Geographic Coverage** National
- 4c. **Data Acquisition Method(s)** Project summaries submitted by Forestry Canada personnel
- 4d. **Geographic Unit(s) of Measurement** Individual projects referenced by nearest town
- 4e. **Period of Record** 1988 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Mainframe computer with custom software in Victoria; microcomputer in Ottawa
- 4h. **Output Format(s) (tables, maps, etc.)** Text
5. **Restrictions and Conditions** None
6. **Price Information** No charge for data on reports
7. **Corresponding Printed Sources** *Vegetation Management Activities of Forestry Canada: A Compendium of Summaries 1988-89*
8. **Languages** Report in English, French translation in progress
9. **User Aids Available** None
10. **Keywords** Forest management; Forestry, Site preparation
11. **Additional Information** None

HEALTH AND WELFARE CANADA

<i>Health and Welfare Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ADDITIVE DATABASE SYSTEM (ADS)	Mr. Gary Trivett (613) 957-1316	180
INTERNATIONAL REGISTER OF POTENTIALLY TOXIC CHEMICALS DATABASE (IRPTC)	Mrs. Ruta Whittaker (613) 957-1506	180
MULTI-CITY ACID AEROSOL STUDY	Mr. Mark Raizenne (613) 957-1878	181
ONTARIO HOSPITAL ADMISSIONS AND AMBIENT AIR QUALITY	Dr. R. T. Burnett (H&WC) (613) 954-0170 Mr. C. Nair (SC) (613) 951-8387	181
PESTICIDE DATABASE SYSTEM (PDS)	Mr. Gary Trivett (613) 957-1316	182

Additive Database System (ADS)	International Register of Potentially Toxic Chemicals Database (IRPTC)
<p>1. Datafile Name(s) Not applicable.</p> <p>2a. Summary Description of Contents Information on the amount of food additive permitted in food commodity for Canada, United States, CODEX and EEC.</p> <p>2b. Purpose of the Database Comparison of levels of food additives allowed in food for Canada, United States, CODEX and EEC.</p> <p>3a. Name and Address of Responsible Organization Food Regulatory, International and Interagency Affairs Division, Health Protection Branch, Health and Welfare Canada, Tunney's Pasture, Ottawa, Ontario, K1A 0L2.</p> <p>3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Trivett (613) 957-1316</p> <p>3c. Access Mechanisms Through the responsible organization.</p> <p>4a. Variables Included (summarized if extensive)</p> <ul style="list-style-type: none"> - food additives - food commodities <p>4b. Geographic Coverage International, including Canada, United States, EEC and CODEX Alimentarius.</p> <p>4c. Data Acquisition Method(s) Through scientific and other literature including: Food Chemical News; CODEX Alimentarius Commission Reports; and various Food and Drug Regulations.</p> <p>4d. Geographic Unit(s) of Measurement Not applicable.</p> <p>4e. Period of Record 1989 to present.</p> <p>4f. Update Frequency As required. As a minimum, yearly.</p> <p>4g. Database Hardware/Software Configuration IBM and compatible microcomputers with DBASE III PLUS software.</p> <p>4h. Output Format(s) (tables, maps, etc.) Reports by food additive or by food commodity.</p> <p>5. Restrictions and Conditions None.</p> <p>6. Price Information No charge.</p> <p>7. Corresponding Printed Sources None.</p> <p>8. Languages Database and reports are only available in English.</p> <p>9. User Aids Available Database is menu driven. A users manual is available.</p> <p>10. Keywords Food; Food additives; International; United States.</p> <p>11. Additional Information This database may soon be available on-line.</p>	<p>1. Datafile Name(s) There are 39 files (see contact person)</p> <p>2a. Summary Description of Contents Information on the toxicity and behaviour of chemicals and on chemical regulation on a world - wide basis (Canadian regulations are included).</p> <p>2b. Purpose of the Database To assist in the evaluation of chemical hazards and to assist in the area of chemical legislation.</p> <p>3a. Name and Address of Responsible Organization Monitoring and Criteria Division, Bureau of Chemical Hazards, Environmental Health Directorate, Health Protection Branch, Health and Welfare Canada, Ottawa, Ontario, K1A 0L2.</p> <p>3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Ruta Whittaker (613) 957-1506 FAX: (613) 954-2486</p> <p>3c. Access Mechanisms Through the responsible organization (DATAPAC) and INTELME.</p> <p>4a. Variables Included (summarized if extensive)</p> <ul style="list-style-type: none"> - national and international chemical regulations - LD 50's and other toxic effects (inhalation, oral, dermal) - evaluations and appraisals (carcinogenicity, immunotoxicity, mutagenicity, neurotoxicity, reproduction, teratogenicity) - biological effects - environmental fate tests - treatment and disposal methods for chemicals <p>4b. Geographic Coverage International, including Canada.</p> <p>4c. Data Acquisition Method(s) Through a worldwide network of national correspondents and international organizations (e.g. World Health Organization) as well as the scientific literature.</p> <p>4d. Geographic Unit(s) of Measurement Not applicable.</p> <p>4e. Period of Record Pre-1976 to present.</p> <p>4f. Update Frequency Daily at IRPTC, Geneva; semi-annually in Canada.</p> <p>4g. Database Hardware/Software Configuration HP 3000 Micro-XE computer with MINISIS database management system.</p> <p>4h. Output Format(s) (tables, maps, etc.) Abstracted information with legislative references for legal file; bibliographic, semi-numeric format for all other files.</p> <p>5. Restrictions and Conditions None.</p> <p>6. Price Information Cost recovery through Infohealth; no charge through direct Datapac access.</p> <p>7. Corresponding Printed Sources</p> <ol style="list-style-type: none"> 1. <i>IRTPC Legal File</i> (1986). 2. <i>Treatment and Disposal Methods for Waste Chemicals</i> (1985). The above two publications deal with only 2 of the 39 files, and are not current. <p>8. Languages Query software is bilingual; toxicological and environmental information is in English only; regulatory information for the province of Quebec will be bilingual.</p> <p>9. User Aids Available User manual; help line 1-800-267-3364.</p> <p>10. Keywords Chemicals; Contaminants; Health; Toxic effects; Toxics.</p> <p>11. Additional Information The database is being expanded to include Canadian provincial legislative information.</p>

Multi-City Acid Aerosol Study

1. **Datafile Name(s)** One for each town.
- 2a. **Summary Description of Contents** A five-year study on respiratory conditions and air quality in Canadian and American cities conducted jointly by this Department and Harvard University.
- 2b. **Purpose of the Database** To examine the relationship between respiratory condition and air quality.
- 3a. **Name and Address of Responsible Organization** Environmental and Occupational Toxicology Division, Health Protection Branch, Health and Welfare Canada, Building 8, Tunney's Pasture, Ottawa, Ontario, K1A 0L2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Mark Raizenne (613) 957-1877 FAX: (613) 952-9798
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - date, individual, community, school, lung function variables
 - air quality (acid level, sulphur dioxide, nitrogen dioxide, ozone, particulates)
 - indoor environment quality
 - respiratory illness
 - other demographic variables
- 4b. **Geographic Coverage** 24 cities in the U.S. and Canada.
- 4c. **Data Acquisition Method(s)** The Department is handling distribution to Canadians but returning the results to Harvard for analysis. Harvard is also coordinating the air monitoring work.
- 4d. **Geographic Unit(s) of Measurement** Individuals by school and by community
- 4e. **Period of Record** 1987 - 1992
- 4f. **Update Frequency** New cities are monitored each year
- 4g. **Database Hardware/Software Configuration** Undetermined
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs, text.
5. **Restrictions and Conditions** The data are the property of Harvard University
6. **Price Information** Undetermined.
7. **Corresponding Printed Sources** None.
8. **Languages** Database and reports are only available in English.
9. **User Aids Available** None.
10. **Keywords** Acid precipitation; Air quality; Health
11. **Additional Information** This is a five-year study. The results are the property of Harvard University and will not be released until the study is completed, probably in the mid 1990's

Ontario Hospital Admissions and Ambient Air Quality

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Daily numbers of hospital admissions from 1983-1988 for all acute care hospitals (184) in Ontario plus corresponding information on ambient air pollution levels.
- 2b. **Purpose of the Database** To examine the relationship between hospital admissions for respiratory illnesses and ambient air pollution in Canada
- 3a. **Name and Address of Responsible Organization** Biostatistics and Computer Applications Division, Environmental Health Directorate, Health and Welfare Canada, Ottawa, Ontario, K1A 0L2
Health Care Section, Canadian Centre for Health Information, Statistics Canada, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. R. T. Burnett (HW) (613) 954-0170 FAX: (613) 952-9798
Mr. C. Nair (SC) (613) 951-8387 FAX: (613) 951-0792
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - daily number of emergency hospital admissions for respiratory illnesses by hospital for 184 acute care hospitals in Ontario
 - daily levels of sulphur dioxide, nitrogen dioxide, ozone, particulate matter, sulphates, nitrates, temperature, wind chill and humidex measured in all monitoring stations operated by the Ontario Ministry of the Environment and Environment Canada
- 4b. **Geographic Coverage** Ontario
- 4c. **Data Acquisition Method(s)** Hospital admission data obtained from the Ontario Ministry of Health and air pollution data obtained from the Ontario Ministry of the Environment and Environment Canada
- 4d. **Geographic Unit(s) of Measurement** Site-specific in Ontario
- 4e. **Period of Record** January 1, 1983 - December 31, 1988
- 4f. **Update Frequency** On a yearly basis
- 4g. **Database Hardware/Software Configuration** Mainframe computer at Statistics Canada; data analyzed by SAS
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** Data restricted to Statistics Canada
6. **Price Information** Not applicable
7. **Corresponding Printed Sources** A preliminary report has been prepared
8. **Languages** Database and reports are only available in English
9. **User Aids Available** None
10. **Keywords** Air pollution; Air quality; Health; Hospital admissions; Ontario
11. **Additional Information** None

**Pesticide Database System
(PDS)**

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on Maximum Residue Limit (MRL) values for pesticides in food for Canada, United States, CODEX and EEC.
- 2b. **Purpose of the Database** Comparison of maximum residue limits for pesticides allowed in food for Canada, United States, CODEX and EEC.
- 3a. **Name and Address of Responsible Organization** Food Regulatory, International and Interagency Affairs Division, Health Protection Branch, Health and Welfare Canada, Tunney's Pasture, Ottawa, Ontario, K1A 0L2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gary Trivett (613) 957-1316
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - Maximum Residue Limit
 - footnotes
- 4b. **Geographic Coverage** International, including Canada, United States, EEC and CODEX Alimentarius.
- 4c. **Data Acquisition Method(s)** Through scientific and other literature including: Food Chemical News (USA); National Pesticide Residue Limits in Foods (Canada); CODEX Alimentarius Commission Reports; and Food and Drug Regulations (Canada).
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1989 to present.
- 4f. **Update Frequency** As required. As a minimum, yearly.
- 4g. **Database Hardware/Software Configuration** IBM and compatible microcomputers with DBASE III PLUS software.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports by pesticides or by food commodity.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database and reports are only available in English.
9. **User Aids Available** Database is menu driven. A users manual is available.
10. **Keywords** Contaminants; International; Pesticides; Residues; United States.
11. **Additional Information** This database may soon be available on-line.

INDIAN AND NORTHERN AFFAIRS CANADA

<i>Indian and Northern Affairs Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
DIAND NORTHWEST TERRITORIES ENVIRONMENTAL DATABASE	Mr. Ranjit Soniassy (403) 920-8233 Mr. Jim Umpherson (403) 920-8165 Ms. Jennifer Letourneau (403) 920-8241	185
GROUNDWATER DATABASE FOR THE NORTHWEST TERRITORIES	Mr. Vlado Schilder (819) 997-9623	185
GROUNDWATER DATABASE FOR YUKON	Mr. Vlado Schilder (819) 997-9623	186
LAND ADMINISTRATION SYSTEM (LAS)	Mr. Jim Barrett (613) 993-3760 Mr. George Booth (613) 993-3760	186
LARGE SCALE PHOTOGRAPHY FOREST MEASUREMENT DATA	Ms. Christine Boyd-Larsen (403) 667-3136	187
MINING AND MINERAL INFORMATION FOR THE NORTHWEST TERRITORIES	Ms. Carol Ellis (403) 920-8220	187
NORTHERN GRANULAR RESOURCE DATABASE	Mr. Bob Gowan (613) 994-7464	188
NORTHWEST TERRITORIES LAND INFORMATION SYSTEM (L.I.S.)	Ms. Annette McRobert (403) 920-8184	188
NORTHWEST TERRITORIES LAND USE REGIONAL PLANNING DATABASES	Mr. David Livingstone (403) 920-8558	189
NORTHWEST TERRITORIES MINING AND EXPLORATION DATABASE	Mr. Chuck Sanderson (403) 920-8126	189
NORTHWEST TERRITORIES SNOW SURVEY INFORMATION SYSTEM	Regional Hydrologist (403) 920-8251	190
NORTHWEST TERRITORIES TOXIC SPILLS MANAGEMENT SYSTEM	Mr. Scott Edwards (403) 920-8240	190
NORTHWEST TERRITORIES WATER QUALITY INFORMATION SYSTEM	Mr. Scott Edwards (403) 920-8240	191
PROTOTYPE NORTHERN MINING RECORDS SYSTEM	Regional Manager (403) 920-8235	191
RESIDUES IN ARCTIC WILDLIFE	Ms. Jill Jensen (819) 994-7451	192
SUMMARY OF WASTE SITES IN THE YUKON AND NORTHWEST TERRITORIES	Ms. Betty Ann Balfour (613) 997-0663	192
YUKON FOREST INVENTORY	Ms. Christine Boyd-Larsen (403) 667-3136 Mr. Peter Henry (403) 668-2263	193
YUKON LAND USE PLANNING GIS	Mr. Ross McLaughlin (403) 667-3151	193
YUKON MINFILE	Mr. Steve Morison (403) 667-3200	194
YUKON NORTHERN LAND USE AND TRANSACTIONS DATABASE	Mr. Joe Ballantyne (403) 667-3100	194

<i>Indian and Northern Affairs Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
YUKON SNOW SURVEY DATA	Mr. Rick Janowicz (403) 667-3223	195
YUKON STREAMFLOW DATA	Mr. Rick Janowicz (403) 667-3223	195
YUKON TIMBER PRODUCTION	Mr. Kim Rymer (403) 668-2263	196
YUKON WATER QUALITY DATABASE	Mr. Gerry Whitley (403) 667-3217	196

DIAND Northwest Territories Environmental Database

1. **Datafile Name(s)** One for each project.
- 2a. **Summary Description of Contents** Environment and water quality data associated with industrial projects on land and offshore for the Northwest Territories.
- 2b. **Purpose of the Database** To perform environmental assessments and to monitor industrial projects for compliance with water quality requirements under the following acts: Northern Inland Waters, Arctic Waters Pollution Prevention, Territorial Lands, and the Federal Environmental Assessment and Review Process/Order in Council.
- 3a. **Name and Address of Responsible Organization** Northern Affairs Program, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ranjit Soniassy (403) 920-8233 Mr. Jim Umpherson (403) 920-8165
Ms. Jennifer Letourneau (403) 920-8241
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - site location (latitude, longitude, town)
 - pollutant concentration (mg/l)
 - heavy metals (copper, nickel, mercury, zinc, iron; 30 metals are monitored)
 - major elements (calcium, magnesium)
 - microbiological characteristics (total coliform, faecal coliform)
 - industrial pollutants (cyanide, sulphide)
 - oils/hydrocarbons
 - organic chemicals (PCB's, pesticides)
 - radionuclides (uranium, radon gas)
 - rare earth elements
- 4b. **Geographic Coverage** About 40 projects in the Northwest Territories
- 4c. **Data Acquisition Method(s)** Data submitted under act compliance by industry, collected by the Department or collected by consultants
- 4d. **Geographic Unit(s) of Measurement** Monitoring stations located by latitude, longitude, town.
- 4e. **Period of Record** 1970's - present
- 4f. **Update Frequency** Monthly/annually, depending upon project
- 4g. **Database Hardware/Software Configuration** WANG computer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps.
5. **Restrictions and Conditions** The data are generally available.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Custom reports are prepared as required.
8. **Languages** The database is in English.
9. **User Aids Available** Forms are available describing the database.
10. **Keywords** Contaminants; Effluents; Emissions; Environmental assessment; Industry; Mining; Northwest Territories; Pollutants; Water quality
11. **Additional Information** This database contains information on background water quality as well as the quality of effluent discharged from drilling and mining operations

Groundwater Database for the Northwest Territories

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on groundwater in the Northwest Territories
- 2b. **Purpose of the Database** To provide data for exploration and management of groundwater resources for engineering purposes
- 3a. **Name and Address of Responsible Organization** Environment and Renewable Resources Directorate, Indian and Northern Affairs Canada, 6th Floor, North Tower, 10 Wellington Street, Hull, Québec, K1A 0H4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Vlado Schilder (819) 997-9623 FAX: (819) 997-1587
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - location of data collection
 - property ownership
 - geological data
 - water level; yield; quality; chemistry
- 4b. **Geographic Coverage** Some areas of the Northwest Territories
- 4c. **Data Acquisition Method(s)** Well log, drill hole, geological information and water quality data collected by federal and territorial government departments, consultants, and private organizations and individuals.
- 4d. **Geographic Unit(s) of Measurement** Individual data collection sites
- 4e. **Period of Record** Database established in 1989
- 4f. **Update Frequency** Periodically as information is received
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE IV software
- 4h. **Output Format(s) (tables, maps, etc.)** Reports produced by computer
5. **Restrictions and Conditions** Intended as public information
6. **Price Information** Not yet determined
7. **Corresponding Printed Sources** Existing documents from which the database is being compiled. A groundwater use register is to be developed
8. **Languages** The database is in English
9. **User Aids Available** None
10. **Keywords** Groundwater; Northwest Territories; Water; Water quality; Water quantity
11. **Additional Information** A publication describing the database has been prepared for the general public: *Groundwater Databases for Yukon and NWT*, Environmental Studies No. 65, 1990. Cat. No. R71-09/65-1990E - ISBN-662-17678-2

Groundwater Database for Yukon

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on groundwater in Yukon.
- 2b. **Purpose of the Database** To provide data for exploration and management of groundwater for engineering purposes.
- 3a. **Name and Address of Responsible Organization** Environment and Renewable Resources Directorate, Indian and Northern Affairs Canada, 6th floor, North Tower, 10 Wellington Street, Hull, Québec, K1A 0H4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Vlado Schilder (819) 997-9623 FAX: (819) 997-1587
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location of data collection
 - property ownership
 - geological data
 - water level; yield; quality; chemistry
- 4b. **Geographic Coverage** Yukon.
- 4c. **Data Acquisition Method(s)** Well log, drill hole, geological information and water quality data collected by federal and territorial government departments, by consultants and by private organizations and individuals.
- 4d. **Geographic Unit(s) of Measurement** Individual data collection sites.
- 4e. **Period of Record** Database established in 1989.
- 4f. **Update Frequency** Periodically as information received.
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE IV software.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports produced by computer.
5. **Restrictions and Conditions** Intended as public information.
6. **Price Information** Not yet determined.
7. **Corresponding Printed Sources** Existing documents from which the database is being compiled; a groundwater use register is to be developed.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Groundwater; Water; Water quality; Water quantity; Yukon.
11. **Additional Information**
 1. This database is under development through headquarters in Ottawa. It will be transferred to the Regional Office of DIAND in Whitehorse when complete.
 2. A publication describing the database has been prepared by DIAND for the general public: *Groundwater Databases for Yukon and NWT*, Environmental Studies No. 65, 1990. Cat. No. R71-09/65-1990E - ISBN-662-17678-2.

Land Administration System (LAS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on licences for oil and gas exploration and production in the Yukon, Northwest Territories and offshore areas of Canada.
- 2b. **Purpose of the Database** To monitor compliance with, and terms and conditions of, licences related to oil and gas operations.
- 3a. **Name and Address of Responsible Organization** Indian and Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jim Barrett (613) 993-3760 Mr. George Booth (613) 993-3760
FAX: (613) 993-9897
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - licence type (exploration, significant discovery, production), date of issue/expiry and location (latitude, longitude)
 - financial information
 - licence ownership
- 4b. **Geographic Coverage** Yukon, Northwest Territories and offshore Canada.
- 4c. **Data Acquisition Method(s)** Licence documents and information submitted by industry.
- 4d. **Geographic Unit(s) of Measurement** Land parcels of various sizes located by latitude and longitude.
- 4e. **Period of Record** 1920's - present.
- 4f. **Update Frequency** As new licences are issued or terms of agreement are changed or fulfilled.
- 4g. **Database Hardware/Software Configuration** Data on microcomputer with DBASE software and some on VAX with ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, reports.
5. **Restrictions and Conditions** Under the Canada Petroleum Resources Act detailed information on ownership, finances and compliance is confidential.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** *Canada Oil and Gas Lands Administration Annual Report*.
8. **Languages** The reports are prepared in English with capability to produce a bilingual format.
9. **User Aids Available** None.
10. **Keywords** Energy; Exploration; Extraction; Frontier lands; Gas; Hydrocarbons; Minerals; Non-renewable resources; Northwest Territories; Oil; Yukon.
11. **Additional Information** This database supports the land registration system (Rights Registration Division) of National Energy Board which holds the supporting licence documents; this database is primarily a management tool, not a public information source.

Large Scale Photography Forest Measurement Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on individual trees for the southern Yukon.
- 2b. **Purpose of the Database** To direct forest management.
- 3a. **Name and Address of Responsible Organization** Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Christine Boyd-Larsen (403) 667-3136 FAX: (403) 668-2311
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - tree species
 - tree height
 - crown area
- 4b. **Geographic Coverage** Southern Yukon.
- 4c. **Data Acquisition Method(s)** Large scale photography, digitizing
- 4d. **Geographic Unit(s) of Measurement** Forest management units
- 4e. **Period of Record** 1981 - present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with custom written basic software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** Forest type; Forestry; Forests; Trees; Yukon.
11. **Additional Information** None.

Mining and Mineral Information
for the Northwest Territories

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on mineral claims, prospecting exploration projects and producing mines for the Northwest Territories
- 2b. **Purpose of the Database** To approve mineral claim and prospecting permits, provide an overview of exploration in the Northwest Territories, collect information on metals geology, and assess trends in mineral exploration
- 3a. **Name and Address of Responsible Organization** Northwest Territories Geology Division, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Carol Ellis (403) 920-8220 FAX: (403) 973-5763
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - mineral claims; geological regions; claim status
 - prospecting; number of permits; permit status; geological region
 - exploration projects; geological region; commodity; exploration method; work results and number of projects
 - value of mineral production, estimated production
 - for each mine: location, operation history, current work, reserves
- 4b. **Geographic Coverage** Northwest Territories
- 4c. **Data Acquisition Method(s)** Monthly reports from the NWT government Mining Safety Division and reports from industry
- 4d. **Geographic Unit(s) of Measurement** Individual permits referenced by latitude and longitude.
- 4e. **Period of Record** 1969 - present
- 4f. **Update Frequency** Annually or biennially (see 7)
- 4g. **Database Hardware/Software Configuration** Paper file and microfiche
- 4h. **Output Format(s) (tables, maps, etc.)** Not applicable
5. **Restrictions and Conditions** Drilling information on a property basis is confidential
6. **Price Information** No charge
7. **Corresponding Printed Sources** Annual report. *Overview of Mining and Mineral Exploration for the Northwest Territories*. Biennial report. *Mineral Industry Report for the Northwest Territories*
8. **Languages** Reports are in English
9. **User Aids Available** None
10. **Keywords** Exploration; Extraction; Minerals, Mining, Non-renewable resources, Northwest Territories
11. **Additional Information** This data set is a series of reports that summarize information collected by other agencies

Northern Granular Resource Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data for the Yukon and Northwest Territories on sand and gravel (aggregate) deposits that may be used as sources of construction materials.
- 2b. **Purpose of the Database** To support management of granular resources and their allocation to users.
- 3a. **Name and Address of Responsible Organization** Land Management Division, Natural Resources and Economic Development Branch, Northern Affairs Program, Indian and Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bob Gowan (613) 994-7464 FAX: (613) 994-6419
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - study (references, general description)
 - granular source
 - location (UTM, latitude, longitude)
 - status (ownership, development, rating)
 - surface description (area, slope, drainage, vegetation)
 - field investigation (boreholes, test pits, natural exposures)
 - site geology (overburden thickness, granular unit, underlying material)
 - permafrost conditions
 - laboratory test data (soil classification, moisture content, particle size)
 - volume calculations (total, total recoverable, annual recoverable)
 - classes of material (volume proven, probable, prospective)
- 4b. **Geographic Coverage** Yukon, Northwest Territories and the Beaufort Sea; presently about 2,000 sites.
- 4c. **Data Acquisition Method(s)** Areas delineated on air photos are surveyed in the field. Historical information from existing reports and government files.
- 4d. **Geographic Unit(s) of Measurement** Individual sources referenced by UTM, latitude, longitude.
- 4e. **Period of Record** 1970's - present (some areas incomplete).
- 4f. **Update Frequency** Periodically, as areas are surveyed or use changes.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with DBASE III, ESEBASE, and INFOCUS software.
- 4h. **Output Format(s) (tables, maps, etc.)** Graphs, tables, text, maps.
5. **Restrictions and Conditions** Some data on boreholes are restricted.
6. **Price Information** Not yet determined.
7. **Corresponding Printed Sources** Reports of studies conducted to provide data for the database are available for viewing in the Department library, some are on microfilm.
8. **Languages** The reports and database are in English.
9. **User Aids Available** None.
10. **Keywords** Construction; Geotechnical; Gravel; Inventory; Northwest Territories; Permafrost; Yukon.
11. **Additional Information** This database is under development. The structure is in place but more information needs to be added to bring it up-to-date. Data post-1986 are digitized.

Northwest Territories Land Information System
(L.I.S.)

1. **Datafile Name(s)** Land Information System.
- 2a. **Summary Description of Contents** Database for Crown Land dispositions in the Northwest Territories.
- 2b. **Purpose of the Database** Assists in the administration of the Territorial Lands Act and the Territorial Lands Regulations.
- 3a. **Name and Address of Responsible Organization** Land Resources, Indian and Northern Affairs Canada, P.O. Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Annette McRobert (403) 920-8184 FAX: (403) 920-4669
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - land information including: leases, permits, sales, reservations, easements etc.
 - purpose of disposition
 - parcel size/location
 - holder information
- 4b. **Geographic Coverage** Northwest Territories.
- 4c. **Data Acquisition Method(s)** Compliance under territorial acts and regulations for land dispositions.
- 4d. **Geographic Unit(s) of Measurement** Individual disposition referenced by latitude, longitude.
- 4e. **Period of Record** Early 1900's - present.
- 4f. **Update Frequency** Daily (as information accumulates).
- 4g. **Database Hardware/Software Configuration** Paper files and DBASE III, CARBON COPY PLUS, FOXPLUS and RELATIONAL REPORT WRITER (R & R) software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Specific document contents are not available.
6. **Price Information** Depends on the size and nature of request.
7. **Corresponding Printed Sources** *Land Information Manual* (in the Draft stage).
8. **Languages** Database is in English.
9. **User Aids Available** *Land Information Manual*, *Land Information Guide* (in the Draft stage).
10. **Keywords** Land; Land dispositions; Land use; Northwest Territories.
11. **Additional Information**
 1. The transactions file pertains to land dispositions.
 2. The database covers many activities on territorial lands north of 60° latitude (south is in Hudson and James Bay).
 3. Activities include mineral, oil and gas exploration wells, geological surveys, roads, trails, cabins, residences, tourism activities, etc. The database focuses on all types of land dispositions.
 4. Conditions are attached to the dispositions to minimize environmental impact and ensure that areas are returned to their original condition as much as possible.
 5. Follow-up data on these dispositions are in other files in the district offices; all disposition information is sent to the regional office in Yellowknife.

Northwest Territories Land Use Regional Planning Databases

1. **Datafile Name(s)** One set of databases for each planning region.
- 2a. **Summary Description of Contents** A GIS set of databases providing historic, present and projected land use in the Northwest Territories.
- 2b. **Purpose of the Database** To facilitate development and monitoring of regional land use plans.
- 3a. **Name and Address of Responsible Organization** Land Use Planning, Indian and Northern Affairs Canada, P.O. Box 2280, Yellowknife, Northwest Territories, X1A 2P7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. David Livingstone (403) 920-8558
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - natural resources distribution (renewable, nonrenewable)
 - community use areas (hunting, fishing)
 - other uses (government, private)
 - period (historic, current, projected)
 - land status
 - use descriptions
 - location (latitude, longitude, UTM)
- 4b. **Geographic Coverage** Northwest Territories.
- 4c. **Data Acquisition Method(s)** Data provided by regional land managers following database inventory.
- 4d. **Geographic Unit(s) of Measurement** Areas designated by latitude and longitude or UTM grid.
- 4e. **Period of Record** Historical - current data; database initiated in 1986.
- 4f. **Update Frequency** As information becomes available
- 4g. **Database Hardware/Software Configuration** Database on microcomputer with SPANS.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, graphs, maps.
5. **Restrictions and Conditions** None.
6. **Price Information** Currently no charge; policy will depend upon demand; media at cost.
7. **Corresponding Printed Sources** *Lancaster Sound Proposed Regional Land Use Plan Interim Report Land Use Planning Commission (Mackenzie Delta - Beaufort Sea Region)*
8. **Languages** Reports are in English.
9. **User Aids Available** None.
10. **Keywords** GIS; Land; Land use; Northwest Territories; Planning
11. **Additional Information**
 1. This database is under development. Currently some information is computerized in the GIS and some is in reports or on magnetic tape
 2. The status of this database is described below by region:
Lancaster Sound region - inventory complete, computerization beginning
Mackenzie-Beaufort Sea region - complete inventory, partly computerized
Other regions - inventory beginning and will be computerized at the same time

Northwest Territories Mining and Exploration Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on mineral production and exploration for approximately 7 mines and dozens of properties in the Northwest Territories
- 2b. **Purpose of the Database** To support the ongoing evaluation of the economic impact of mining and exploration activities in the NWT
- 3a. **Name and Address of Responsible Organization** Economic Services, Indian and Northern Affairs Canada, P.O. Box 1500, Yellowknife, Northwest Territories, X1A 2R3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Chuck Sanderson (403) 920-8126 FAX: (403) 873-5763
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - mine or property name
 - owner(s) and operator(s)
 - corporate ownership structure
 - claim number
 - location (NTS, exploration district) and size
 - mineral potential
 - grade
 - reserves
 - production (projected, actual; year)
 - expenditures (capital and/or operation and maintenance)
- 4b. **Geographic Coverage** Approximately 50 mines and properties in the Northwest Territories
- 4c. **Data Acquisition Method(s)** Through the Mining Recorder's Office, newspapers and periodicals
- 4d. **Geographic Unit(s) of Measurement** Mines referenced by NTS and exploration district
- 4e. **Period of Record** The database is kept current
- 4f. **Update Frequency** Monthly to quarterly, depending on available time
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE IV
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** The information is available but access to the database is restricted
6. **Price Information** No charge at present
7. **Corresponding Printed Sources** A periodic internal report will be prepared
8. **Languages** The database is in English
9. **User Aids Available** None
10. **Keywords** Exploration; Extraction; Minerals; Mining; Northwest Territories, Non-renewable resources
11. **Additional Information** This database is under development

Northwest Territories
Snow Survey Information System

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Periodic ground measured snow depth data for Northwest Territories.
- 2b **Purpose of the Database** To make moisture predictions for forest fire ratings, estimating water for reservoirs, flood forecasting, and pipeline monitoring.
- 3a **Name and Address of Responsible Organization** Water Resources, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Regional Hydrologist (403) 920-8251 FAX: (403) 873-5763
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - snow depth
 - water equivalent
 - station location, snow density (latitude, longitude)
- 4b **Geographic Coverage** About 50 stations in the Northwest Territories, mostly below treeline.
- 4c **Data Acquisition Method(s)** Field data collection, monthly, semi-annually, annually.
- 4d **Geographic Unit(s) of Measurement** Individual stations referenced by latitude and longitude.
- 4e **Period of Record** 1965 - present.
- 4f **Update Frequency** As field reports are submitted.
- 4g **Database Hardware/Software Configuration** Paper file, LOTUS 1-2-3 file (computer database being written in DBASE IV).
- 4h **Output Format(s) (tables, maps, etc.)** None.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Monthly snow survey bulletins were prepared during the spring months in 1982, 1983.
- 8 **Languages** The database is mostly numbers.
- 9 **User Aids Available** None.
- 10 **Keywords** Climate; Northwest Territories; Snow; Water quantity.
- 11 **Additional Information**
 1. Although data are still collected, no snow survey reports are currently being prepared. Prior to 1985, the Atmospheric Environment Service (Environment Canada) produced an annual snow survey report that included the Northwest Territories data.
 2. Satellite-sensed snow water equivalent data for mainland compiled for 1979-present. Data will be available through this office. These and additional data of this type are available on a custom basis from: Ph.D. Associates, 107 Fordwich Crescent, Rexdale, Ontario, M9W 2T6. (416) 736-5295.
 3. A computer database is being prepared for the data and will include some data south of 60° in areas drained by NWT rivers.

Northwest Territories
Toxic Spills Management System

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** An inventory of accidents involving spills of hazardous materials in the Northwest Territories.
- 2b **Purpose of the Database** To monitor the occurrence and clean-up of toxic spills in the Northwest Territories.
- 3a **Name and Address of Responsible Organization** Water Resources, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Scott Edwards (403) 920-8240 FAX: (403) 873-5763
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - material spilled and quantity
 - location (description or latitude and longitude)
 - significance (major, minor)
 - industry type
 - lead enforcement agency and lead follow-up agency
 - area impacted
 - party responsible
 - hazards (persons, property, environment, multiple or none reported)
- 4b **Geographic Coverage** Northwest Territories.
- 4c **Data Acquisition Method(s)** Spills reported through compliance under various Acts or licences/permits.
- 4d **Geographic Unit(s) of Measurement** Individual spills referenced by description or latitude, longitude.
- 4e **Period of Record** 1984 - present.
- 4f **Update Frequency** Twice per month.
- 4g **Database Hardware/Software Configuration** Some data on IBM compatible microcomputer with ZIM software, other data in paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Tables only.
- 5 **Restrictions and Conditions** Summary information is available but some source data are restricted.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** Database is in English.
- 9 **User Aids Available** *The Toxic Spills Management System User's Manual* (1989).
- 10 **Keywords** Accidents; Hazardous materials; Monitoring; Northwest Territories; Spills; Toxics.
- 11 **Additional Information**
 1. Custom reports summarizing the data by any of the parameters can be prepared.
 2. There are plans to prepare a five year summary report.
 3. All the data in this database are sent to Environmental Protection, Environment Canada, Yellowknife. However, they have not been forwarded to Ottawa for inclusion in the National Analysis of Trends in Emergencies System database (NATES) held by Environment Canada.

Northwest Territories Water Quality Information System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Water quality data for the Northwest Territories.
- 2b. **Purpose of the Database** To assist in developing water quality guidelines and assessing compliance.
- 3a. **Name and Address of Responsible Organization** Water Resources, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Scott Edwards (403) 920-8240 FAX: (403) 873-5763
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - 118 parameters including: organics; heavy metals; biochemical oxygen demand; pH; E-coli
 - location (latitude, longitude, description)
 - project name
- 4b. **Geographic Coverage** Northwest Territories.
- 4c. **Data Acquisition Method(s)** Field sampling, municipality reports, mine compliance data
- 4d. **Geographic Unit(s) of Measurement** Sample sites located by latitude and longitude
- 4e. **Period of Record** 1985 - present.
- 4f. **Update Frequency** Periodically, as time permits. Has not been kept current due to software problems to be corrected in a new version.
- 4g. **Database Hardware/Software Configuration** IBM microcomputer with ZIM 3.0 software but is being rewritten to run on an HP 3000.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables in DIF format
5. **Restrictions and Conditions** None.
6. **Price Information** Usually no charge, but will depend on size of request.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is numbers with English headings.
9. **User Aids Available** None.
10. **Keywords** Northwest Territories; Water; Water quality
11. **Additional Information** This database is under development. There are plans to make it accessible on-line.

Prototype Northern Mining Records System

1. **Datafile Name(s)** Claims, Client, Lease.
- 2a. **Summary Description of Contents** Data on mining claims and subsequent leases for the Northwest Territories.
- 2b. **Purpose of the Database** To maintain records for the administration of mining claims under the Territorial Lands Act
- 3a. **Name and Address of Responsible Organization** Mining Recorder Office, Northern Affairs Program, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Regional Manager (403) 920-8235 FAX: (403) 873-5763
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - claims
 - * name, tag number, location (NTS), registered holder, claim history
 - client
 - * name (individual, company), address, phone number, prospector's licence number
 - lease
 - * number, owner, expiry date, location (NTS), annual rental
 - * encumbrances (documents registered against lease)
- 4b. **Geographic Coverage** Northwest Territories
- 4c. **Data Acquisition Method(s)** Information reported to Department office
- 4d. **Geographic Unit(s) of Measurement** Individual claims, leases referenced by NTS
- 4e. **Period of Record** 1910 - present
- 4f. **Update Frequency** Daily
- 4g. **Database Hardware/Software Configuration** All data on IBM compatible microcomputer with modified DBASE software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** Reports of work on claims are confidential for three years
6. **Price Information** No charge for information search, \$1 per page for printed information, very small requests may be free
7. **Corresponding Printed Sources**
 1. Mines and Minerals Statistics (monthly, annually)
 2. Activity Reports (weekly, monthly, annually)
8. **Languages** Pamphlet in English and Inuktituk, database in English
9. **User Aids Available** Pamphlet describing claim staking and general information
10. **Keywords** Arctic; Extraction; Minerals; Mining; Northwest Territories, Non-renewable resources
11. **Additional Information**
 1. This database is an index to claims and leases. Further data are held in paper files
 2. The entire database, including details of claims and leases, is in the process of being computerized. On-line access by the public is proposed

Residues in Arctic Wildlife

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on levels of organochlorine pesticides and PCBs in wildlife in the Canadian Arctic.
- 2b. **Purpose of the Database** To examine trends in contaminant levels in Arctic wildlife and to assess possible impacts of wildlife used as a human food source.
- 3a. **Name and Address of Responsible Organization** Environment Research and Services Division, Natural Resources and Economics Branch, Indian and Northern Affairs Canada, 4th floor, 10 Wellington Street, Hull, Québec, K1A 0H4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Jill Jensen (819) 994-7451
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - species (ringed seals, caribou, polar bears)
 - location (description, latitude, longitude)
 - sex, age
 - data source
 - tissue analyzed, organochlorine pesticide level, PCB level
- 4b. **Geographic Coverage** Canadian Arctic.
- 4c. **Data Acquisition Method(s)** From the literature.
- 4d. **Geographic Unit(s) of Measurement** Sample sites recorded by latitude and longitude.
- 4e. **Period of Record** 1988 - present.
- 4f. **Update Frequency** Continuous.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with custom software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** Only published data are released.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is in English.
9. **User Aids Available** None.
10. **Keywords** Arctic; Biota; Biotic response; Contaminants; Pesticides; Residues; Northwest Territories; Wildlife; Yukon.
11. **Additional Information** This database is currently being developed. More species will be added in future and there are plans for adding mapping capability.

Summary of Waste Sites in the Yukon and Northwest Territories

- 1 **Datafile Name(s)** One for each territory and management division therein.
- 2a. **Summary Description of Contents** An inventory of waste located and cleanup information for DIAND land in the Yukon and Northwest Territories.
- 2b. **Purpose of the Database** To create a waste inventory for crown land in the territories to schedule cleanup, estimate costs and record details of cleanup activities
- 3a. **Name and Address of Responsible Organization** Northern Affairs, Indian and Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Betty Ann Balfour (613) 997-0663 FAX: (613) 994-6419
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - location (latitude, longitude)
 - type (hazardous, non-hazardous)
 - owner
 - amount (significant, insignificant)
- 4b. **Geographic Coverage** Yukon and Northwest Territories.
- 4c. **Data Acquisition Method(s)** Data collected by regional personnel, from historical records and from other government departments.
- 4d. **Geographic Unit(s) of Measurement** Individual waste sites referenced by latitude and longitude.
- 4e. **Period of Record** 1989 - present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** Microcomputer with LOTUS 1-2-3 software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables.
5. **Restrictions and Conditions** None.
6. **Price Information** Not yet determined.
7. **Corresponding Printed Sources** None currently available.
8. **Languages** Database is in English.
9. **User Aids Available** None.
10. **Keywords** Arctic; Northwest Territories; Wastes; Waste inventory; Waste management; Yukon.
11. **Additional Information**
 1. This database is under development. Parameters in addition to those listed will be added over time.
 2. An annual internal report on existing waste and the cleanup progress is planned.

Yukon Forest Inventory

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Management forest inventory for the southern Yukon.
- 2b. **Purpose of the Database** To identify and describe the quality, location and extent of the Yukon's forest resource.
- 3a. **Name and Address of Responsible Organization** Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 918 - 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Christine Boyd-Larsen (403) 667-3136 Mr. Peter Henry (403) 668-2263
FAX: (403) 668-2311
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - tree species composition
 - minimum, maximum, average height
 - average age
 - presence of field samples (may be used to link to Large Scale Photography Forest Measurement Data)
 - disturbances
 - crown closure
- 4b. **Geographic Coverage** Parts of southern Yukon.
- 4c. **Data Acquisition Method(s)** Medium and Large scale photography, field samples.
- 4d. **Geographic Unit(s) of Measurement** All data reference to UTM co-ordinates
- 4e. **Period of Record** 1987 to present.
- 4f. **Update Frequency** Ongoing.
- 4g. **Database Hardware/Software Configuration** IBM compatible 386 microcomputer with PAMAP GIS software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, DBASE IV or compatible digital files.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is mostly numbers.
9. **User Aids Available** None.
10. **Keywords** Forest inventory; Forestry; GIS; Trees; Yukon
11. **Additional Information** None.

Yukon Land Use Planning GIS

1. **Datafile Name(s)** Two files per 1:50,000 map sheet.
- 2a. **Summary Description of Contents** Data on land use and capability for two regions in Yukon.
- 2b. **Purpose of the Database** For use in regional land use planning to resolve land use conflicts.
- 3a. **Name and Address of Responsible Organization** Yukon Land Use Planning Directorate, Northern Affairs Program, Indian and Northern Affairs Canada, 308 Steele Street, Whitehorse, Yukon, Y1A 2C5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ross McLaughlin (403) 668-6561 FAX: (403) 668-4070
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - bedrock geology
 - agricultural capability
 - grazing capability, leases
 - forest inventory (productivity, age class)
 - timber permits
 - fishery habitat (freshwater, anadromous)
 - stream classification (fish habitat rating)
 - water licences
 - land use permits
 - mineral occurrence
 - key wildlife habitats
 - land tenure and status
 - hazards
 - recreation potential
- 4b. **Geographic Coverage** Southwestern Yukon and Greater Klugane Planning Region
- 4c. **Data Acquisition Method(s)** Government departments, native people
- 4d. **Geographic Unit(s) of Measurement** Data recorded by NTS and planning region
- 4e. **Period of Record** Database created in 1989; data of various ages up to present
- 4f. **Update Frequency** Under discussion
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE IV and PAMAP graphics software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps
5. **Restrictions and Conditions** Under discussion
6. **Price Information** Under discussion
7. **Corresponding Printed Sources** None
8. **Languages** The database is in English
9. **User Aids Available** Data dictionary for the territory
10. **Keywords** GIS; Habitats; Land use; Minerals; Physiography; Water, Yukon
11. **Additional Information**
 1. This database is under development and will eventually cover the entire territory
 2. Of eight regions in the territory, work on the Southwest is completed, the Klugane is partially completed and information for the North is now being collected

Yukon Minfile

- 1 **Datafile Name(s)** Yukon Minfile
- 2a **Summary Description of Contents** A database containing information on all known mineral occurrences in the Yukon
- 2b **Purpose of the Database** To monitor mineral exploration activity and production and to assist industry.
- 3a **Name and Address of Responsible Organization** Exploration and Geological Services Division, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Steve Morison (403) 667-3200 FAX: (403) 668-2176
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - for each occurrence
 - physical work description
 - geological description
 - location
 - relative significance
 - references
 - claims information
 - commodity(s)
- 4b **Geographic Coverage** Yukon and southwestern District of Mackenzie.
- 4c **Data Acquisition Method(s)** Reports from industry and field observations.
- 4d **Geographic Unit(s) of Measurement** Individual sites referenced by NTS.
- 4e **Period of Record** 1961 - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Microcomputer with FOXBASE software using DOS 3.3.
- 4h **Output Format(s) (tables, maps, etc.)** Text and maps.
- 5 **Restrictions and Conditions** Database contains no confidential information.
- 6 **Price Information** Varies according to NTS sheet. Photocopying charges for all requests.
- 7 **Corresponding Printed Sources** Annual report.
- 8 **Languages** English.
- 9 **User Aids Available** Coding specifications and user guide available at terminal.
- 10 **Keywords** Minerals; Mining; Yukon.
- 11 **Additional Information**
 1. Database information was purchased in paper form from Archer, Cathro and Associates (1981) Limited in 1989.
 2. The current computerized database system is modeled after the B.C. Minfile System.

Yukon Northern Land Use and Transactions Database

- 1 **Datafile Name(s)** Land Use Permits, Northern Land Transaction System.
- 2a **Summary Description of Contents** Permit and lease data for crown land use in the Yukon
- 2b **Purpose of the Database** To monitor and minimize the environmental impact of activities on crown land
- 3a **Name and Address of Responsible Organization** Land Use Section, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Joe Ballantyne (403) 667-3100
- 3c **Access Mechanisms** Through the responsible organization
- 4a **Variables Included (summarized if extensive)**
 - permits information
 - holder name
 - activity information
 - location
 - lease information
 - purpose of lease
 - parcel size
 - location
- 4b **Geographic Coverage** Yukon.
- 4c **Data Acquisition Method(s)** Compliance under territorial regulations for permits and leases.
- 4d **Geographic Unit(s) of Measurement** Individual permits/leases referenced by latitude, longitude and mapped at 1:50,000.
- 4e **Period of Record** 1972 - present.
- 4f **Update Frequency** As information accumulates.
- 4g **Database Hardware/Software Configuration** Paper files and some DBASE III and files.
- 4h **Output Format(s) (tables, maps, etc.)** Tables.
- 5 **Restrictions and Conditions** Permits - none; specific lease contents are not available.
- 6 **Price Information** Depends on the size and nature of the request.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** The database is in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Construction; Environmental restructuring; Land; Mining; Yukon.
- 11 **Additional Information** This database is similar to that for the Northwest Territories, but the activities monitored in the database vary slightly between the two territories. For example, mineral claims are included in the NWT database but are not in the Yukon database.

Yukon Snow Survey Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Data on snow quantity in the Yukon.
- 2b. **Purpose of the Database** To make moisture predictions for forest fire ratings, estimate water for reservoirs and forecast floods.
- 3a. **Name and Address of Responsible Organization** Water Resources Division, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Rick Janowicz (403) 667-3223 FAX: (403) 667-2126
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - snow depth, water equivalent and snow density
 - station location (latitude, longitude; UTM)
 - station elevation
- 4b. **Geographic Coverage** 58 stations within the Yukon.
- 4c. **Data Acquisition Method(s)** Field observations.
- 4d. **Geographic Unit(s) of Measurement** Individual sampling stations recorded by latitude, longitude, UTM.
- 4e. **Period of Record** 1977 - present.
- 4f. **Update Frequency** As data are collected.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE IV software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None.
6. **Price Information** No charge for data or reports.
7. **Corresponding Printed Sources** Monthly report: *Yukon Territory Snow Survey Bulletin and Water Supply Forecast*.
8. **Languages** Reports are in English.
9. **User Aids Available** None.
10. **Keywords** Climate; Snow; Water quantity; Yukon.
11. **Additional Information**
 1. Data are collected during four months in the spring
 2. Reports are available from the responsible agency.
 3. Computerized graphic and mapping capability is being developed

Yukon Streamflow Data

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Flow discharge data for 12 streams in the Yukon.
- 2b. **Purpose of the Database** To provide data for flood forecasting and engineering design of bridges, dams, etc.
- 3a. **Name and Address of Responsible Organization** Water Resources Division, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Rick Janowicz (403) 667-3223 FAX: (403) 667-2126
- 3c. **Access Mechanisms** Through the responsible agency.
- 4a. **Variables Included (summarized if extensive)**
 - sampling location (latitude, longitude)
 - flow discharge (m³/sec)
- 4b. **Geographic Coverage** 12 streams in the Yukon
- 4c. **Data Acquisition Method(s)** Automated field recording stations
- 4d. **Geographic Unit(s) of Measurement** Individual stations referenced by latitude and longitude
- 4e. **Period of Record** 1975 - present
- 4f. **Update Frequency** As data are collected
- 4g. **Database Hardware/Software Configuration** Mainframe computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables
5. **Restrictions and Conditions** None
6. **Price Information** No charge for data or reports
7. **Corresponding Printed Sources** Reports produced every two or three years: *Historical summary, Yukon Water Resources Hydrometric Program* (see 11)
8. **Languages** Reports are in English
9. **User Aids Available** None
10. **Keywords** Hydrology; Rivers; Streamflow; Water; Water quantity; Yukon
11. **Additional Information**
 1. The most recent report contains 1975-1986 data and is available from the responsible agency
 2. The database is being converted for use on a microcomputer with DBASE IV software

Yukon Timber Production

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** A database on timber production on Territorial Lands for the Yukon.
- 2b **Purpose of the Database** To collect data on timber production in order to prepare financial and production reports.
- 3a **Name and Address of Responsible Organization** Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Kim Rymer (403) 668-2263 FAX: (403) 668-2311
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - number of permits issued
 - products cut
 - species
 - volume
 - value
 - stumpage by product
 - forest management district
- 4b **Geographic Coverage** Yukon.
- 4c **Data Acquisition Method(s)** Timber permits, timber harvesting agreements.
- 4d **Geographic Unit(s) of Measurement** Forest management districts.
- 4e **Period of Record** Early 1950's - present.
- 4f **Update Frequency** Annually.
- 4g **Database Hardware/Software Configuration** Microcomputer with DBASE IV software.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, text (reports).
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** Monthly reports and some annual reports.
- 8 **Languages** Database and report are in English.
- 9 **User Aids Available** None.
- 10 **Keywords** Forestry; Harvesting; Yukon
- 11 **Additional Information** None.

Yukon Water Quality Database

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** Water quality data submitted by water licences in Yukon.
- 2b **Purpose of the Database** To monitor compliance performance of water licences.
- 3a **Name and Address of Responsible Organization** Water Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gerry Whitley (403) 667-3217 FAX: (403) 667-2126
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)**
 - location (description)
 - company (name, address)
 - water parameters
 - LC 50
 - heavy metals
 - pH
 - conductivity
- 4b **Geographic Coverage** Yukon.
- 4c **Data Acquisition Method(s)** Compliance data submitted by water licence holders.
- 4d **Geographic Unit(s) of Measurement** Individual licences.
- 4e **Period of Record** Water quality: 1987 - present. Licensing: 1971 - present.
- 4f **Update Frequency** As reports are submitted.
- 4g **Database Hardware/Software Configuration** IBM compatible microcomputer with DBASE IV software for water quality; licensing data in paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Tables, graphs.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** Database is mostly numbers.
- 9 **User Aids Available** None.
- 10 **Keywords** Water; Water quality; Yukon.
- 11 **Additional Information** Not all the licences or mines are in the database (no placer mining, municipal, agricultural licences).

INDUSTRY, SCIENCE AND TECHNOLOGY CANADA

<i>Industry, Science and Technology Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
DIRECTORY OF MANUFACTURERS: ENVIRONMENTAL PRODUCTS	Mr. John Moran (613) 954-6181	198

**Directory of Manufacturers:
Environmental Products**

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** The database contains the name, address, telephone number and type(s) of products available from manufacturing companies in Canada.
- 2b. **Purpose of the Database** Industrial promotion.
- 3a. **Name and Address of Responsible Organization** Environmental Industries and Projects Division, Industry, Science and Technology Canada, 235 Queen Street, Ottawa, Ontario, K1A 0H5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. John Moran (613) 954-6181 FAX: (613) 954-3430
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - company name, address, telephone number
 - product(s) manufactured
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Not applicable.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** Not applicable.
- 4f. **Update Frequency** Annual (January to March).
- 4g. **Database Hardware/Software Configuration** Microcomputer with DBASE III + software.
- 4h. **Output Format(s) (tables, maps, etc.)** Floppy diskettes and hardcopy printout.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Printed directory.
8. **Languages** Directory is bilingual, database is in English.
9. **User Aids Available** None.
10. **Keywords** Environmental products; Industry; Manufacturing.
11. **Additional Information** None.

NATIONAL ENERGY BOARD

<i>National Energy Board Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
ENVIRONMENTAL AND FEASIBILITY STUDIES FOR OFFSHORE DRILLING	Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892	200
PHYSICAL ENVIRONMENTAL OBSERVATION AND MEASUREMENT PROGRAMS FOR OFFSHORE DRILLING	Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892	200

Environmental and Feasibility Studies for Offshore Drilling

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A collection of reports on studies related to ice, icebergs, waves, weather and climatic conditions with respect to drilling in the offshore.
- 2b. **Purpose of the Database** To archive environmental studies conducted in support of determining the feasibility of offshore oil and gas operations.
- 3a. **Name and Address of Responsible Organization** National Energy Board, 311 6th Avenue SW, Calgary, Alberta, T2P 3H2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892
FAX: (403) 292-5503
- 3c. **Access Mechanisms** Through the responsible organization or through the operators that submitted the studies and reports to National Energy Board.
- 4a. **Variables Included (summarized if extensive)**
 - meteorology (wind, cloud cover, temperature, visibility)
 - waves (climate and extremes) and currents (regime and extremes)
 - ice conditions (pack ice/icebergs)
 - ice/icebergs (detection, prediction, characteristics, distribution, scour, forces)
 - design criteria
 - production facilities design
- 4b. **Geographic Coverage** Canadian offshore including Arctic waters.
- 4c. **Data Acquisition Method(s)** Various.
- 4d. **Geographic Unit(s) of Measurement** Individual studies referenced by location where appropriate.
- 4e. **Period of Record** 1972 - present.
- 4f. **Update Frequency** As studies are completed.
- 4g. **Database Hardware/Software Configuration** Paper file.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, maps, text.
5. **Restrictions and Conditions** For studies related to a specific drilling program there is a 5-year confidentiality period. Others are confidential indefinitely.
6. **Price Information** May depend on the operator or company that commissioned the study.
7. **Corresponding Printed Sources** A report is on file for each drilling project.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Energy; Exploration; Gas; Marine; Non-renewable resources; Oil.
11. **Additional Information**
 1. Although the National Energy Board cannot release the data until the confidentiality period has expired, it may be possible to obtain the data from the company that submitted the report to the National Energy Board.
 2. Only studies done with respect to specific drilling programs are required to be submitted to the National Energy Board; these have a 5-year confidentiality period. Other projects submitted to National Energy Board as information items have unlimited confidentiality periods and may be released only by the company that commissioned the study.

Physical Environmental Observation and Measurement Programs for Offshore Drilling

1. **Datafile Name(s)** One for each parameter for each well/drilling program.
- 2a. **Summary Description of Contents** A collection of reports and digital data on environmental conditions in the vicinity of oil and gas wells/drilling operations in Canada's offshore.
- 2b. **Purpose of the Database** To monitor environmental conditions during oil and gas operations with respect to safety of personnel, the operation and the environment.
- 3a. **Name and Address of Responsible Organization** National Energy Board, 311 6th Avenue SW, Calgary, Alberta, T2P 3H2.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892
FAX: (403) 292-5503
- 3c. **Access Mechanisms** Through the responsible organization. Other agencies (Marine Environmental Data Service (MEDS), Atmospheric Environment Service (AES), Bedford Institute of Oceanography (BIO) and Institute of Ocean Studies (IOS) receive copies of the data for archiving purposes.
- 4a. **Variables Included (summarized if extensive)**
 - well location (latitude, longitude)
 - meteorology (wind, clouds, temp, visibility)
 - waves (visual and waverider)
 - currents (various depths)
 - ice conditions (pack ice/icebergs)
 - weather forecast verification
 - date; operator; consultant
- 4b. **Geographic Coverage** Offshore areas including the Arctic.
- 4c. **Data Acquisition Method(s)** Reports and data tapes from oil and gas operators.
- 4d. **Geographic Unit(s) of Measurement** Individual wells referenced by latitude/longitude.
- 4e. **Period of Record** 1972 - present.
- 4f. **Update Frequency** As reports are submitted.
- 4g. **Database Hardware/Software Configuration** Paper file and digital 9 track magnetic tapes.
- 4h. **Output Format(s) (tables, maps, etc.)** Text for paper file; prescribed format for tapes.
5. **Restrictions and Conditions** There is a two-year confidentiality period during which National Energy Board cannot release information.
6. **Price Information** No charge for information from reports; charges for analyzed information determined by archiving agent.
7. **Corresponding Printed Sources** Database is a series of reports. Analysis of the data has been carried out by archiving agencies.
8. **Languages** Reports are in English.
9. **User Aids Available** There is a bibliographic listing of reports.
10. **Keywords** Currents; Energy; Exploration; Marine; Meteorology; Non-renewable resources; Waves.
11. **Additional Information**
 1. The database contains 400-500 files.
 2. Raw data are stored on magnetic tape. Copies are sent to archiving agencies such as Marine Environment Data Service, Bedford Institute of Oceanography, Institute of Ocean Sciences, and the Canadian Climate Centre of the Atmospheric Environment Service. Each of these organizations analyzes and reorganizes the data relevant to their area of interest. National Energy Board retains copies of all tapes organized by well but synthesized by topic.
 3. There is a lag between tape receipt and incorporation of the data into the databases of the organizations, except at MEDS.
 4. Although the National Energy Board cannot release data for specific wells within two years, it might be possible to obtain the data from the operator who submitted it. Further, the meteorological and ice/iceberg data are incorporated into AES real time analyses and used for weather and ice/iceberg prediction.

STATISTICS CANADA

<i>Statistics Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
AIRCRAFT MOVEMENT STATISTICS	Mr. Peter Bailie (619) 997-6185	203
ANNUAL CENSUS OF FORESTRY	Mr. Jacques Lepage (613) 951-3516	203
ANNUAL SURVEY OF MANUFACTURES (PART 1: NON-DURABLE GOODS /PART 2: DURABLE GOODS)	Mr. Carl Hebert (613) 951-3524	204
CANADIAN MORTALITY DATA BASE	Ms. Martha Fair (613) 951-1734	204
CAPITAL AND REPAIR EXPENDITURES, ACTUAL	Ms. Susan Horsley (613) 951-2589	205
CENSUS OF AGRICULTURE	Ms. Linda Kemp (613) 951-8711	205
CENSUS OF POPULATION	Ms. Rosalie Bambrick (613) 951-3968 Mr. Michel Séguin (613) 951-3958	206
CENSUS OF WILDLIFE PELT PRODUCTION	Mr. Peter Meszaros (613) 951-2505	206
COAL MINES	Mr. Dave Madsen (613) 951-3565	207
CORRUGATED BOXES AND WRAPPERS	Ms. Sandra Bohatyretz (613) 951-3531	207
CROP CONDITION ASSESSMENT PROGRAM (CCAP)	Mr. Ken Korporal (613) 951-3872 Ms. Norah Hillary (613) 951-3861	208
CRUDE PETROLEUM AND NATURAL GAS PRODUCTION	Mr. Gary Smallridge (613) 951-3567	208
ELECTRICITY SUPPLY/DISPOSITION QUARTERLY	Mr. Dave Madsen (613) 951-3565	209
ENVIRONMENTAL INFORMATION SYSTEM (GIS COMPONENT)	Mr. Phil Fong (613) 951-5638 Mr. Bruce Mitchell (613) 951-3742	209
ESTIMATES OF POPULATION BY MARITAL STATUS, AGE AND SEX FOR CANADA, THE PROVINCES AND THE TERRITORIES	Ms. Lise Champagne (613) 951-2320	210
FIELD CROP REPORTING SERIES	Mr. Oliver Code (613) 951-8719	210
FOR-HIRE (COMMODITY ORIGIN-DESTINATION) TRUCKING SURVEY	Ms. Kathie Davidson (613) 951-8779	211
GENERAL SOCIAL SURVEY - CYCLE 1 (GSS-85)	Mr. Ed Praught (613) 951-9180	211
GENERAL SOCIAL SURVEY - CYCLE 4 (GSS-89)	Ms. Ghislaine Villeneuve (613) 951-4995	212
HOSPITAL MORBIDITY	Ms. Rose-Marie Laflamme (613) 951-1639	212
HOUSEHOLD FACILITIES AND EQUIPMENT SURVEY (HFE)	Ms. Penny Barclay (613) 951-4634	213

<i>Statistics Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
HOUSEHOLD ENVIRONMENT SURVEY	Mr. Bruce Mitchell (613) 951-3742 Mr. M. Meere (613) 951-4637	213
INDUSTRIAL CONSUMERS OF ENERGY	Mr. Dave Madsen (613) 951-3565	214
LOCAL GOVERNMENT FINANCIAL MANAGEMENT STATISTICS - CAPITAL EXPENDITURES	Mr. Terry Moore (613) 951-8306 Mr. Robert Loggie (613) 951-1809	214
LOCAL GOVERNMENT GROSS REVENUE AND EXPENDITURES (ACTUAL DATA)	Mr. Terry Moore (613) 951-8306	215
MOTOR CARRIER - FREIGHT AND HOUSEHOLD GOODS MOVERS SURVEY	Ms. Yasmin Sheikh (613) 951-2518	215
NATIONAL CANCER INCIDENCE REPORTING SYSTEM	Mr. Nelson Nault (613) 951-1746	216
NATIONAL FARM SURVEY (NFS)	Mr. Phillip Stevens (613) 951-2435	216
PASSENGER BUS AND URBAN TRANSIT STATISTICS (ANNUAL)	Ms. Yasmin Sheikh (613) 951-2518	217
PRODUCTION AND SHIPMENTS OF PLASTIC BOTTLES (BLOW-MOULDED)	Mr. Raj Sehdev (613) 951-3513	217
PRODUCTION, SHIPMENTS AND STOCKS ON HAND OF SAWMILLS EAST OF THE ROCKIES	Mr. Jacques Lepage (613) 951-3516	218
PRODUCTION, SHIPMENTS AND STOCKS ON HAND OF SAWMILLS IN BRITISH COLUMBIA	Mr. Jock Dobie (604) 666-2671	218
PROJECTIONS OF POPULATION, HOUSEHOLDS AND FAMILIES FOR CANADA AND THE PROVINCES	Ms. Jeanine Perreault (613) 951-2346 Dr. M.V. George (613) 951-9580	219
PROVINCIAL GOVERNMENT REVENUE AND EXPENDITURE (ESTIMATES AND ACTUAL DATA)	Mr. Terry Moore (613) 951-8306	219
ROAD MOTOR VEHICLE SURVEY (FUEL)	Ms. Yasmin Sheikh (613) 951-2518	220
ROAD MOTOR VEHICLES (REGISTRATION)	Ms. Yasmin Sheikh (613) 951-2518	220
SHIPMENTS OF PLASTIC FILM AND BAGS MANUFACTURED FROM RESIN	Mr. Raj Sehdev (613) 951-3513	221
THERMAL GENERATING STATION FUEL CONSUMPTION	Mr. Dave Madsen (613) 951-3565	221
WHOLESALE TRADE SURVEY (MONTHLY)	Mr. Gilles Berniquez (613) 951-3540	222

Aircraft Movement Statistics

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey collects statistics on aircraft movements from all airports with air traffic control towers and from selected smaller airports without air traffic control towers.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Aviation Statistics Centre, Transportation Division, Statistics Canada, 14th Floor, Les Terrasses de la Chaudière, 15 Eddy Street, Hull, Québec, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Bailie (819) 997-6185 FAX: (819) 953-8499
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - aircraft landings and take-offs (all locals, single-engine, multi-engine, jet, Military)
 - arrivals and departures
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Administrative survey. 100% extraction from administrative files. Collection period: daily.
- 4d. **Geographic Unit(s) of Measurement** Airports.
- 4e. **Period of Record** Since 1960
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file in hard copy/printout, diskette, or tape. Customised tabulation or data file including following variables: Aircraft movements (i.e. take-offs, landings or simulated approaches) classified by: class of operation, geographic area, type of operation, type of power plant, weight groups, flight rules used, runways used, monthly peak days and peak hours. Reports.
5. **Restrictions and Conditions** Release time 2 months after the reference month. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 51-004
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable.
10. **Keywords** Aircraft; Aviation; Transportation
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2715.

Annual Census of Forestry

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Contains a wide variety of information on the operation of the forestry industry
- 2b. **Purpose of the Database** The Census of Forestry is a survey of the logging and forestry services of Canada. Data serves research, planning and policy requirements of both business and government
- 3a. **Name and Address of Responsible Organization** Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jacques Lepage (613) 951-3516 FAX (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - nature of business
 - inventories
 - purchased fuel and electricity
 - logging inputs and outputs
 - non-manufacturing outputs
 - revenue
 - exports
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Combined survey direct (2,700 establishment sample) and administrative (1,300 establishment sample). 68% Self-completion, mail out/mail back, 32% extraction from administrative files. Collection period from March to February
- 4d. **Geographic Unit(s) of Measurement** Provinces, Other: British Columbia interior and coast
- 4e. **Period of Record** Since 1917
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Release time occurs 28 months after the reference fiscal year. Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publications 25-201, 25-202
8. **Languages** Reports available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Forestry; Forests; Logging
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2107
 2. 1979 to 1983 - continual revisions

Annual Survey of Manufactures
(Part 1: Non-durable Goods /Part 2: Durable Goods)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Contains a variety of information on the operations of the manufacturing sector.
- 2b. **Purpose of the Database** The Survey of Manufactures is a survey of the manufacturing industries of Canada.
- 3a. **Name and Address of Responsible Organization** Part 1 - Survey of Manufactures Section (Non-durable Goods), Part 2 - Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Carl Hebert (613) 951-3524 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - principal operating statistics, including shipments, materials purchased, inventories, labour data
 - non-manufacturing activity, commodity information
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Combined survey direct (35,000 establishment sample) and administrative (30,000 establishment sample). 60% self-completion, mail out/mail back; 40% non-standard: mail out/CATI. Collection period from April to February.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories; Subprovincial regions; Census divisions; Census subdivisions; Census metropolitan areas; Census agglomerations; Other: Manufacturing statistical areas.
- 4e. **Period of Record** Since 1917.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file. Principal Statistics tape. Fuel Statistics tape. Also available are customised analytical studies and other products; charts, maps.
5. **Restrictions and Conditions** Release time occurs 24 to 30 months after the reference year (depending on the industry). Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications: (Part 1); 31-203; 31-209; 31-211; 31-530; 32-250; 32-251; 33-250; 33-251; 34-250; 34-251; 34-252; 36-251; 45-250; 46-250; 47-250, (Part 2); 31-203; 31-209; 31-211; 31-530; 35-250; 35-251; 36-250; 41-250; 41-251; 42-250; 42-251; 43-250; 44-250.
8. **Languages** Reports available in French and English.
9. **User Aids Available** Statistics Canada Publication 31-258.
10. **Keywords** Durable goods; Industry; Manufacturing; Non-durable goods.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey ID Number 2103.
 2. As of the 1987 survey year this survey was redesigned as part of the Business Survey Redesign.; 1988 - The Industrial Commodity Classification was replaced by the Standard Classification of Goods (Harmonized System).
 3. Documentation of the Annual Survey of Manufactures has been split due to size: Part 1 for Non-durable and Part 2 for Durable Goods Industries.

Canadian Mortality Data Base

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Automated medical follow-up facilities are available to match starting point file (the files you supply) to the Canadian Mortality Data base (CMDB), at Statistics Canada, to determine whether persons in the group have died and the cause of death.
- 2b. **Purpose of the Database** To provide a tool for the increasing demand for statistical information on delayed health risks.
- 3a. **Name and Address of Responsible Organization** Occupational and Environmental Health Research Section, Canadian Centre for Health Information, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Martha Fair (613) 951-1734 FAX: (613) 951-0792
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - personal identification including parental and spousal information
 - death details
 - * death, accident, other (miscellaneous death)
 - other geographic variables
 - * residence, occurrence
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Provincial vital statistics.
- 4d. **Geographic Unit(s) of Measurement** Canada.
- 4e. **Period of Record** 1950 through present.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or statistical data file - a) Hard copy/printout, b) Diskette, c) Tape.
5. **Restrictions and Conditions** The Statistics Canada Act and the Privacy Act of Canada protect the confidentiality of all records. All studies involving long term medical follow-up at Statistics Canada must satisfy a prescribed review and approval process.
6. **Price Information** On a cost-recovery basis.
7. **Corresponding Printed Sources** Non-catalogued publications include: Smith, M.E. and H.B. Newcombe (1982). "Use of the Canadian Mortality Database for Epidemiological Follow-up", in *Canadian Journal of Public Health*, Vol. 73: 39-45.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** A data collection package provides directions on producing your starting point file.
10. **Keywords** Diseases; Health; Mortality.
11. **Additional Information**
 1. Long term computerized medical follow-up has demonstrated its value in studies of mortality and cancer incidence; similar uses are possible for assessing the risks of birth defects.
 2. An application package is available from the responsible organisation (3a) to apply to undertake a long term health follow-up study.

Capital and Repair Expenditures, Actual

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey provides a measurement of annual gross fixed capital formation in industry in each province and territory for construction and for machinery acquisitions, with further detail on public/private categories and by types of asset for construction and for machinery and equipment. The repair data provide added information to complete the measurement for total activity as a total potential market in construction and in the acquisition of machinery.
- 2b. **Purpose of the Database** The database serves a variety of research, planning and policy information requirements.
- 3a. **Name and Address of Responsible Organization** Capital Expenditures Section, Investment and Capital Stock Division, Statistics Canada, 9th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Susan Horsley (613) 951-2589 FAX: (613) 951-0196
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - capital and repair expenditures for construction, machinery and equipment
 - disposals and sales of fixed assets
 - reasons for disposals and sales of fixed assets
 - changes in capital expenditure plans
 - capacity utilization rates for the manufacturing sector
 - gross book value
 - pollution abatement and control expenditures
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 26,000 establishments of all industries in the Standard Industrial Classification Manual (excluding international governments and private households). Data collection method via 100% self-completion, mail out/mail back. Collection period from March 15 to October 31.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories, Census metropolitan areas - selected (for manufacturing sector only)
- 4e. **Period of Record** Since 1946.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM
5. **Restrictions and Conditions** Release time occurs 14 months after the reference fiscal year. Confidentiality of individual responses
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 61-205; 61-206; 61-214, 61-216, 64-201; 34-015.
8. **Languages** Publications available in French and English
9. **User Aids Available** "Notes and Definitions for Gross Fixed Capital Formation"
10. **Keywords** Capital expenditures; Industry; Machinery.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2805
 2. Data Revision: The "actual" survey data are not revised, therefore, it excludes adjustments and historical revisions made in the national accounting System
 3. A past major revision occurred in 1986 with the introduction of the new Capital Expenditure Data requirements and new questionnaire (1985 data)
 4. The Capital Expenditure Surveys are tentatively scheduled for a major re-design and integration with the Central Frame Database in the next several years
 5. The Capital Expenditures Section conducted a first survey of Pollution Abatement and Control Expenditures by Industry in early 1991. The results are now available

Census of Agriculture

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** The survey collects data from operators of farms, ranches or other agricultural holdings.
- 2b. **Purpose of the Database** The Census of Agriculture is the major source of agriculture data in Canada and serves a wide range of social and economic research, planning and policy formation requirements
- 3a. **Name and Address of Responsible Organization** Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Linda Kemp (613) 951-8711 FAX: (613) 951-3868
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - livestock and poultry
 - dairy products and eggs
 - field crops
 - fruits and vegetables
 - mushrooms
 - greenhouse nursery products and sod
 - fur bearing animals
 - honey and beeswax
 - maple products
 - value of products sold
 - business expenses
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of all census farms. Collection using 94% self-completion, drop off/pick up, 5% self-completion, drop off/mail back, 1% face to face interview. Collection period from mid-May to the end of June
- 4d. **Geographic Unit(s) of Measurement** Canada, Provinces, Territories, Subprovincial regions, Census divisions; Census consolidated subdivisions, User-specified units
- 4e. **Period of Record** Since 1871.
- 4f. **Update Frequency** Quinquennial
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file. For a detailed list of products offered please refer to *Census of Agriculture - User's Guide* (catalogue no 96-101). Method(s) of dissemination. a) Hard copy/printout, b) Diskette, c) Tape, d) Other, microfiche, Customised tabulation or data file, Customised simulations, forecasts, etc., Customised analytical studies, Other customised products
5. **Restrictions and Conditions** Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publications. 96-101, 96-102, 96-103, 96-104, 96-105, 96-106, 96-107, 96-108, 96-109, 96-110, 96-111, 96-112, 96-113, 96-114
8. **Languages** Reports are bilingual, database printout may be in English, French or bilingual
9. **User Aids Available** Not applicable
10. **Keywords** Agriculture, Crops, Fertilizers; Irrigation, Land use, Pesticides
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3438
 2. The most recent Census was conducted in June 1991

Census of Population

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Basic information concerning age, sex, marital status, mother tongue is obtained for all persons in Canada. In addition, data were collected for each dwelling, concerning both the persons living there (e.g., the number of residents) and the dwelling itself (e.g., type of dwelling). Certain other information was collected from a sample (one-fifth) of the population including data on citizenship, mobility status; on social and cultural characteristics such as ethnicity, education, and language spoken in the home; disabilities and on economic characteristics such as labour force activity, occupation, industry, place of work and income. Sample data on additional dwelling characteristics, such as period of construction, number of rooms, type of heating equipment, as well as shelter costs, are also available.
- 2b. **Purpose of the Database** The Census collects information on the social and economic characteristics of Canadians and the dwellings in which they live.
- 3a. **Name and Address of Responsible Organization** Data Capture Applications and Development Section, Census Operations Division, Statistics Canada, 2nd Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Rosalie Bambrick (613) 951-3968 Mr. Michel Séguin (613) 951-3958
FAX: (613) 951-0686
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - demographic characteristics
 - ethno-cultural and language
 - schooling
 - labour force
 - income
 - family and household
 - housing and disability
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey. 68% self-completion, drop off/mail back; 30% self-completion, drop off/pick up; 2% face to face personal interview. Collection period from May 26 to July 15 (for years ending in 1 or 6).
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories; Subprovincial regions; Census divisions; Census subdivisions; Census metropolitan areas; Census agglomerations.
- 4e. **Period of Record** Records exist back to 1666.
- 4f. **Update Frequency** Quinquennial.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard - available on demand - Tape. For a detailed list of products and services offered please refer to *Products and Services* (catalogue no. 99-103). Method(s) of dissemination: a) Hard copy/printout, b) Diskette, c) Tape, d) Other, Microfiche. Customised tabulation or data file also available. Reports.
5. **Restrictions and Conditions** Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications: 92-101 to 92-105; 92-109 to 92-123; 93-101 to 93-119; 93-151 to 93-157; 94-101 to 94-134; 95-101 to 95-174; 98-101 to 98-112; 98-120 to 98-135; 99-101(E&F) to 99-106(E&F); 99-115 to 99-127. Non-catalogued publications: Postal code (FSA) profiles; Aboriginal Peoples Output Program products.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Demography; Population.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3901

Census of Wildlife Pelt Production

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey collects data on wildlife pelts produced in Canada including information on the number and value of pelts taken.
- 2b. **Purpose of the Database** The database serves research and policy requirements.
- 3a. **Name and Address of Responsible Organization** Livestock and Animals Products Section, Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Peter Meszaros (613) 951-2505 FAX: (613) 951-3868
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - number of wildlife pelts, by type
 - value of production, by kind
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Derived survey of all licensed trappers. Collected from August 15 to January 15.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1919.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 23-207.
8. **Languages** Report is bilingual; database is in English.
9. **User Aids Available** Not applicable.
10. **Keywords** Pelts; Trapping; Wildlife.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3428.
 2. Report is released 9 months after the reference fur year (ending June 30).

Coal Mines

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This is an annual survey collecting data related to the production activities of Canadian coal mines.
- 2b. **Purpose of the Database** Mining information to support research, planning and policy development.
- 3a. **Name and Address of Responsible Organization** Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - quantity and value of fuel and electricity
 - value of materials and supplies
 - quantity and value of sales
 - inventory
 - consumption of purchased fuel and electricity
 - selected mining and non-mining inputs
 - operating revenue
 - production summary
 - technical details
 - payroll, employment and hours.
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of 30 coal mines with gross sales of \$1,000,000 over the year. 100% self-completion, mail out/mail back. Collection period from January 1 to July 1.
- 4d. **Geographic Unit(s) of Measurement** Nova Scotia, New Brunswick; Saskatchewan, Alberta; British Columbia.
- 4e. **Period of Record** Since 1972.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Release time 1 year after the reference calendar year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 26-206
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Coal; Energy; Hydrocarbons; Mining; Non-renewable resources
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2177
 2. No major revisions since inception of survey

Corrugated Boxes and Wrappers

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey collects monthly information on shipments from 13 manufacturers of corrugated boxes and wrappers given in quantity and value and by province of destination. Exports are also shown
- 2b. **Purpose of the Database** Provides information on one aspect of packaging production
- 3a. **Name and Address of Responsible Organization** Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Sandra Bohatyretz (613) 951-3531 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - manufacturing shipments
 - quantity
 - destination
 - value
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey. 100% self-completion, mail out/mail back. Collection period from 1st of month to 10th of month
- 4d. **Geographic Unit(s) of Measurement** Establishments, Provinces
- 4e. **Period of Record** Since 1961
- 4f. **Update Frequency** Monthly
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Release time 18 working days after the reference month. Confidentiality of individual responses
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 36-004
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Cardboard, Corrugated boxes; Packaging, Paper
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2144
 2. The survey is reviewed annually to ensure that the terminology and units of measure are still relevant

Crop Condition Assessment Program (CCAP)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An operational program to monitor Prairie crop conditions on a weekly basis.
- 2b. **Purpose of the Database** The program supports the agricultural community that requires objective, frequent and timely information.
- 3a. **Name and Address of Responsible Organization** Remote Sensing Unit, Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ken Korporal (613) 951-3872 Ms. Norah Hillary (613) 951-3861
FAX: (613) 951-3868
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - comparison of crop conditions to previous year or historical normal
 - meteorological conditions
 - normalized difference vegetation index (NDVI)
- 4b. **Geographic Coverage** Canadian Prairies (Alberta, Saskatchewan, Manitoba).
- 4c. **Data Acquisition Method(s)** Digital analysis of NOAA imagery.
- 4d. **Geographic Unit(s) of Measurement** Crop reporting districts; Census consolidated subdivisions (rural municipalities); Meteorological station locations; Cropland and pasture delineations; Image NDVI data (1 km resolution).
- 4e. **Period of Record** Since 1987 (archived NOAA database from 1982).
- 4f. **Update Frequency** Weekly throughout crop growing season.
- 4g. **Database Hardware/Software Configuration** DIPIX ARIES III Image Analysis System; PCI Image Analysis System; ARC/INFO GIS; PC-SAS/LOTUS.
- 4h. **Output Format(s) (tables, maps, etc.)** Colour imagery, maps, graphs, tables. Customized outputs also available.
5. **Restrictions and Conditions** Available only on a subscription basis.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 33-032, 33-033, 33-034, 33-035.
8. **Languages** Weekly reports and the database are available in English. Documentation is available in French and English.
9. **User Aids Available** Not applicable
10. **Keywords** Agriculture; Alberta; Crop condition; Crops; GIS; Manitoba; Prairies; Remote sensing; Saskatchewan.
11. **Additional Information**

Future program additions:

 - early season yield estimates
 - soil moisture evaluation

Crude Petroleum and Natural Gas Production

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** The monthly Crude Petroleum and Natural Gas Production Survey covers the production and final destination of crude oil, natural gas and natural gas liquids.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Oil and Gas Unit, Energy Section, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - gross production of crude oil and natural gas by province
 - gross production for plant and field use, reinjection and that which is burned off
 - natural gas shrinkage
 - volumes of products produced - condensate, propane, butane, ethane and sulphur
 - inventories in the field
 - inventories held by transporters (distributors in the case of natural gas)
 - amounts sent to various provinces for final disposition
 - amounts for export
- 4b. **Geographic Coverage** Producing Provinces, Territories and Canada.
- 4c. **Data Acquisition Method(s)** Derived survey. Collection period 50 to 55 working days after the end of the month in question.
- 4d. **Geographic Unit(s) of Measurement** Company location; Provinces; Territories; Canada.
- 4e. **Period of Record** Since 1908.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Release time 65 working days after the reference month. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 26-006.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Extraction; Hydrocarbons; Natural gas; Non-renewable resources; Oil.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2198.
 2. Survey revised as received from sources (surveyed companies or administrative files) up to 24 months prior to current reference period.

Electricity Supply/Disposition Quarterly

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This is a quarterly survey collecting data about the supply and disposition of electricity in Canada from approximately 215 utilities and industrial establishments which generate and/or distribute electric energy.
- 2b. **Purpose of the Database** Database supports research, planning and policy development.
- 3a. **Name and Address of Responsible Organization** Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - energy generated
 - gross receipts of energy from the U.S.A.
 - gross receipts of energy from other provinces
 - gross deliveries of energy to other provinces, to other systems within province
 - energy used
 - transmission, distribution and other losses
 - value of electric energy used in residential, agriculture, mining, pulp and paper, iron and steel, smelting and refining, cement, petroleum refineries, chemicals, other manufacturing, urban transit, pipeline transport, gas distribution, public administration and defence, street lighting and commercial/institutional.
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of 215 utilities and industrial establishments 100% self-completion, mail out/mail back. Collection period 90 days
- 4d. **Geographic Unit(s) of Measurement** Establishments; Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1981.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports.
5. **Restrictions and Conditions** Release time 6 months after the reference quarter. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 57-003; 57-202
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable.
10. **Keywords** Electricity supply; Energy.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2194.

Environmental Information System
(GIS Component)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A wide variety of geographically referenced information is held in the system. Many of these data are from Statistics Canada sources and can be reworked to bring out dimensions that make the data more useful for environmental analysis. These include detailed data from the Census of Population, Census of Agriculture and Industry Surveys
- 2b. **Purpose of the Database** Contains a core set of statistics relevant to the analysis and assessment of the national state of the environment and regional environmental concerns
- 3a. **Name and Address of Responsible Organization** National Accounts and Environment Division, Statistics Canada, 21st Floor R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Phil Fong (613) 951-5638 Mr. Bruce Mitchell (613) 951-3742
FAX: (613) 951-3618
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - biophysical conditions
 - crop type trends
 - use of pesticides, fertilizers, irrigation
 - cultivation practices
 - socio-economic agriculture data
 - population, by a wide number of characteristics
 - dwellings, by type
 - labour force
 - industrial establishments
 - industrial activity
- 4b. **Geographic Coverage** Canada, and potentially some international coverage, especially U.S.A. data for adjacent river basins
- 4c. **Data Acquisition Method(s)** Derived from surveys
- 4d. **Geographic Unit(s) of Measurement** Canada, Provinces, Territories, Subprovincial regions; Census divisions; Census subdivisions, Census metropolitan areas, Census agglomerations, Other: Drainage basins, Ecological units, Climate zones, Pollution impact areas, Many other environmentally significant units
- 4e. **Period of Record** Many series are available back to 1971
- 4f. **Update Frequency** Constantly updated
- 4g. **Database Hardware/Software Configuration** Both PC and UNIX based ARC/INFO Geographic Information Systems
- 4h. **Output Format(s) (tables, maps, etc.)** Customised tabulations or data files, other customised products including maps/graphics Publications
5. **Restrictions and Conditions** Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** *Human Activity and the Environment*, Statistics Canada Catalogue 11-509E (F); *Estimating Agricultural Soil Erosion* - Trant, D. *Environmental Perspectives: Studies and Statistics*, Statistics Canada (forthcoming)
8. **Languages** Reports are bilingual, database is in english
9. **User Aids Available** Data dictionary available from responsible organization
10. **Keywords** Agriculture; Ecozones, Environment statistics; Environmental Information System, GIS; Population; Industry, State of the Environment; Watersheds
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1201
 2. New environmental surveys are being conducted by Statistics Canada on waste management, pollution abatement and control by industry and environmentally relevant actions of households. These data will be included in the Information System in the future

Estimates of Population by Marital Status, Age and Sex for Canada, the Provinces and the Territories

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey provides estimates of population by marital status, single year of age, 5-year age groups and sex, for Canada, provinces and territories.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Population Estimates Section, Demography Division, Statistics Canada, 6th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Lise Champagne (613) 951-2320 FAX: (613) 951-2307
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - population by marital status, age and sex
 - deaths by marital status, age and sex
 - immigrants by marital status, age and sex
 - emigrants by marital status, age and sex
 - interprovincial in-out and net migrants by marital status, age and sex
 - annual number of newly married, divorced and widowed by age and sex for Canada.
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Derived survey.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1951.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape. Reports, CANSIM.
5. **Restrictions and Conditions** Release time 140 days after the reference day. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 91-528E.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Population.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3605.

Field Crop Reporting Series

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This is a series of eight agriculture surveys used in the preparation of statistical reports released at pre-scheduled, strategic times during the crop year.
- 2b. **Purpose of the Database** Designed to provide accurate and timely forecasts and estimates of acreage, production and farm stocks of the major grains in Canada at the provincial level.
- 3a. **Name and Address of Responsible Organization** Crop Reporting Unit, Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Oliver Code (613) 951-8719 FAX: (613) 951-3868
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - field crop areas
 - area and yield of crops on summerfallow and stubble
 - intentions to plant field crops
 - grain in storage on farms
 - probable yields
 - estimated yields
 - crop areas and production
 - crop record
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of a sample size of 10,000. Collection method via telephone interview, August 1 to July 31.
- 4d. **Geographic Unit(s) of Measurement** Farms; Provinces; Canada.
- 4e. **Period of Record** Since 1920.
- 4f. **Update Frequency** Occasional.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 22-002.
8. **Languages** Report is bilingual; database is in English.
9. **User Aids Available** Not applicable.
10. **Keywords** Agriculture; Crops.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3401.
 2. Release time varies throughout the year.
 3. Information available 1 month after collection period.

For-Hire (Commodity Origin-Destination) Trucking Survey

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** The objectives of the survey are to provide reliable estimates concerning the origin and destination of intercity commodity movements by for-hire motor carriers (intercity means movements of 15 miles/24.1 kilometres or more).
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Kathie Davidson (613) 951-8779 FAX: (613) 951-0579
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - revenues
 - shipments
 - weight volume
 - commodities
 - tonne-kilometres
 - origin and destination of movement
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 1,300 sampled firms. 65% observation/inspection; 30% self-completion in machine readable form; 5% face to face personal interview.
- 4d. **Geographic Unit(s) of Measurement** Firms; Canada; Provinces; Territories; Subprovincial regions; Census metropolitan areas; Other: US Census divisions and regions
- 4e. **Period of Record** Since 1970.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file in hard copy/printout, diskette, or tape. Customised tabulation or data file including following variables : Specific points of origin and destination, Estimated number of shipments, Estimated revenue, Tons and ton miles, Tonnes and tonne-kilometres for any commodity carried at the three-digit Standard Commodity Classification level. Reports.
5. **Restrictions and Conditions** Release time 15 months after the reference quarter
Confidentiality of individual responses
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 53-222
8. **Languages** Reports are available in French and English.
9. **User Aids Available** "Survey Methodology 1983" (vol. 9, no. 1).
10. **Keywords** Motor vehicles; Transportation; Trucking.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2741
 2. 1981 and 1986 - Change in methodology, computer system, but concepts and objectives remain the same
 3. Until 1988, this survey was conducted annually and collected data pertaining to the calendar year.

General Social Survey - Cycle 1 (GSS-85)

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Data on disability, health and lifestyle.
- 2b. **Purpose of the Database** This survey monitors changes in the health of Canadians and examines social support related to persons 55 years and older
- 3a. **Name and Address of Responsible Organization** General Social Survey Project, Housing, Family and Social Statistics Division, Statistics Canada, 7D7, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ed Praught (613) 951-9180
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - short and long term disability
 - lifestyle
 - health problems
 - use of health care services
 - support network
 - support given and received
- 4b. **Geographic Coverage** Provinces
- 4c. **Data Acquisition Method(s)** Direct survey of 11,200 sample. 72% telephone interview, 28% face to face personal interview. Collection period September and October 1985
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces
- 4e. **Period of Record** 1985
- 4f. **Update Frequency** Quinquennial.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file available on demand - a) Hard copy/printout, b) Diskette, c) Tape, d) Other, cartridge Customised tabulation or data file and customised analytical studies. Number of variables 622 Reports.
5. **Restrictions and Conditions** Release time 9 months after the reference period
Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publications 11-612, 89-508
8. **Languages** Reports are available in French and English
9. **User Aids Available** Statistics Canada Publication 11-612 (no. 1); *GSS Features and Status Report*
10. **Keywords** Disability; Health; Lifestyle; Social Survey
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3836
 2. Frequency. GSS is an annual survey with specific subject areas (e.g. health) recurring quinquennially

General Social Survey - Cycle 4 (GSS-89)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey monitors patterns and trends in work and education.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** General Social Survey Project, Housing, Family and Social Statistics Division, Statistics Canada, 7th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Ghislaine Villeneuve (613) 951-4995
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - work
 - education
 - science and technology
 - organizations
 - satisfaction
- 4b. **Geographic Coverage** Provinces.
- 4c. **Data Acquisition Method(s)** Direct survey of 9,300 sampled individuals. 100% telephone interview. Collection period January and February 1989.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces.
- 4e. **Period of Record** 1989.
- 4f. **Update Frequency** Quinquennial.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, special tabulations.
5. **Restrictions and Conditions** Release time 9 months after the reference period. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 11-612.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Statistics Canada Publication 11-612 (no. 1); *GSS Features and Status Report*.
10. **Keywords** Education; Workplace.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3892.
 2. Frequency: GSS is an annual survey with specific subject areas (e.g. health) recurring quinquennially.

Hospital Morbidity

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Contains a variety of information on diseases and surgical procedures of persons in hospitals
- 2b. **Purpose of the Database** The basic source of inpatient hospital morbidity information is the admission/separation form completed by general and allied hospitals. All provinces co-operate in forwarding computer tapes to Statistics Canada, containing medico-demographic information of the patient, such as age, sex, diagnosis, surgical operations, length of stay, etc. The information forwarded by the provinces is subjected to editing and standardizing processes before national morbidity statistics are produced and disseminated. The information published is the only national source of the hospital experience of the Canadian population in terms of diseases and surgical procedures.
- 3a. **Name and Address of Responsible Organization** Information Production Unit, Canadian Centre for Health Information, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)** Ms. Rose-Marie Laflamme (613) 951-1639 FAX: (613) 951-0792
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - hospital separations
 - surgical procedures
 - age
 - sex
 - diagnosis
 - length of stay
 - patients region of residence
 - province
 - number of cases
- 4b. **Geographic Coverage** Provinces.
- 4c. **Data Acquisition Method(s)** Administrative survey. 100% extraction from administrative files. Collection period from April 1 to March 31.
- 4d. **Geographic Unit(s) of Measurement** Provinces.
- 4e. **Period of Record** Since 1960.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape. Non-catalogued publications, CANSIM.
5. **Restrictions and Conditions** Release time 1 1/2 years after the reference fiscal year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Non-catalogued publications include: *Hospital Morbidity, Surgical Procedures; E-Codes* (Hospitalizations as a result of accidents).
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Diseases; Health; Hospitals; Morbidity.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3203.

Household Facilities and Equipment Survey (HFE)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This household survey provides annual estimates of household facilities and equipment based on a sample which represents all private households in Canada. By linking this data base with the survey of Consumer Finances, the HIFE data base is created to provide annual estimates of household incomes, facilities and equipment
- 2b. **Purpose of the Database** Database provides a variety of information on items in the household with potential for cross tabulations by other socio-economic variables. These data are used in research, planning and policy development.
- 3a. **Name and Address of Responsible Organization** Income and Housing Surveys Section, Household Surveys Division, Statistics Canada, 5th Floor, Jean Talon Building, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Penny Barclay (613) 951-4634 FAX: (613) 951-0562
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - selected dwelling characteristics (type of dwelling, tenure, age of dwelling, etc.)
 - facilities and equipment variables (heating equipment, fuel, hot water fuel, cooking fuel)
 - number of refrigerators, telephones, colour televisions, radios, cars, microwave ovens, video recorders, cable televisions (some items such as recreation equipment and supplementary heating equipment are available only every 2-3 years)
- 4b. **Geographic Coverage** Provinces.
- 4c. **Data Acquisition Method(s)** Direct survey of 38,000 sampled households from the household population of 9,200,000. 95% telephone interview; 5% face to face personal interview. Collection period in May.
- 4d. **Geographic Unit(s) of Measurement** Provinces; Subprovincial regions - selected; Census metropolitan areas - selected.
- 4e. **Period of Record** Since 1947.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape; Customised tabulation or data file. Customised products include divisional master file. Number of variables 480; Main variables Demographic, Labour force, Income, Household facilities and equipment, Housing characteristics, Levels of dissemination (individual, CF, EF, and household). Two publications are produced.
5. **Restrictions and Conditions** Release time October of the current year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 13-218 and 64-202
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Boats; Fuel; Furnaces; Heat pumps; Heating; Household equipment; Household facilities; Refrigerators; Snowmobiles.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3505
 2. Final estimates published in the fall of the survey year. Estimates revised following release of the current Census data, ie. data for 1981-1987 have been revised based on updated counts from the 1986 Censuses and a new weighting procedure
 3. Some of the surveyed items are standard every year, other items rotate in every second year. New items can be added in response to demand from users. Mobile homes included in estimates as of 1984. Many of the questions have a strong environmental dimension

Household Environment Survey

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Statistics on household use of selected environmentally significant products, household practices of perceived environmental significance
- 2b. **Purpose of the Database** The database is intended to serve requests for special tabulations of survey results.
- 3a. **Name and Address of Responsible Organization** National Accounts and Environment Division, Statistics Canada, 21st Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Bruce Mitchell (613) 951-3742 FAX: (613) 951-3618
Mr. M. Meere, Household Surveys Division, Statistics Canada (613) 951-4637
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - use of disposable diapers, programmable thermostats, low flow shower heads, pesticides in the garden, recycled paper products
 - disposal practices for household hazardous waste
 - water filters
 - bottled water use
 - composting
 - access to, use of, recycling
 - travel to work
- 4b. **Geographic Coverage** Canada excluding the Territories
- 4c. **Data Acquisition Method(s)** Telephone survey of 10,000 households in the pilot phase. The full survey covers a 40,000 household sample representing the Canadian population of households
- 4d. **Geographic Unit(s) of Measurement** Canada, Provinces, Urban-Rural, Sub-provincial from special tabulations
- 4e. **Period of Record** Pilot survey conducted in September 1990
- 4f. **Update Frequency** Full survey was conducted in May 1991
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape. Customised tabulation or data file
5. **Restrictions and Conditions** Microdata is confidential
6. **Price Information** Charge for special tabulations
7. **Corresponding Printed Sources** Background document containing pilot survey results released in February 1991. Statistics Canada Publication 11-526, *Households and the Environment*, contains the results of the May 1991 survey. Contact the Responsible Organization (3a) for more information
8. **Languages** French and English
9. **User Aids Available** Not applicable
10. **Keywords** Diapers; Energy use; Household equipment; Household facilities; Pesticides; Recycling; Water use
11. **Additional Information** None

Industrial Consumers of Energy

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This is a quarterly survey collecting energy consumption and inventory data from large consumers of energy in Canada.
- 2b. **Purpose of the Database** Provides energy data for planning and policy purposes.
- 3a. **Name and Address of Responsible Organization** Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - consumption of coal (by type), coal coke, petroleum coke, heavy fuel oil, natural gas (fuel and input), wood, spent pulping liquor, steam
 - steam sales
 - inventory of fuel
 - adjustments, losses, sales, etc.
 - energy content
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 320 establishments that are large energy users. 100% self-completion, mail out/mail back. Collection period 20 days.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1977.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports.
5. **Restrictions and Conditions** Release time 4 months after the reference quarter. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 57-003
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Coal; Electricity; Energy; Hydrocarbons; Industry.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2166.

Local Government Financial Management Statistics
- Capital Expenditures

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** The survey presents capital expenditures information on a forecast, revised forecast, preliminary and actual basis in accordance with the concepts and definitions of the Financial Management System of Government Statistics with asset-type detail.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Public Finance Section, Public Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Terry Moore (613) 951-8306 Mr. Robert Loggie (613) 951-1809
FAX: (613) 951-0661
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)** local government capital expenditures.
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 380 sampled municipalities from a Canadian population of 3,831. 100% self-completion, mail out/mail back. Collection period from April to June; from November to January.
- 4d. **Geographic Unit(s) of Measurement** Municipalities; Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1955
- 4f. **Update Frequency** Semi-annual.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette. Reports, CANSIM.
5. **Restrictions and Conditions** Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 61-205; 61-206
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable.
10. **Keywords** Expenditures; Financial management; Local government; Municipalities.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1733.

Local Government Gross Revenue and Expenditures (Actual Data)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey presents actual data on local government current revenue and expenditures and on capital expenditures in accordance with the concepts and definitions of the System of Government Financial Management Statistics.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Public Finance Section, Public Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Terry Moore (613) 951-8306 FAX: (613) 951-0661
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - revenue by source and expenditure by function on the basis of the Financial Management System
 - capital expenditures
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Administrative survey. 100% extraction from administrative files.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories
- 4e. **Period of Record** Since 1945
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - a) Hard copy/printout, b) Diskette. Reports, CANSIM.
5. **Restrictions and Conditions** Release time 30 months after the reference year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 68-204
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Expenditures; Local government; Municipalities; Revenue; Waste management; Wastes.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1731.

Motor Carrier - Freight and Household Goods Movers Survey

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This is an annual survey composed of two sub-surveys. The Motor Carriers - Freight and Household Goods Movers Survey covers for-hire trucking establishments primarily engaged in the provision of local and long-distance trucking. This survey collects establishment-oriented industry statistics such as basic input and output data on the Canadian for-hire trucking industry and transportation-oriented statistics on this mode of transport, such as the distance travelled, equipment operated and the number of carriers by type of operation. The survey also provides sufficient data upon which to delineate the universe of the For-hire Trucking Survey (Truck Commodity Origin and Destination Survey), such as the intercity transportation revenue earned, the area of operation and the type of commodities carried.
- 2b. **Purpose of the Database** Research, planning and policy requirements for transport statistics
- 3a. **Name and Address of Responsible Organization** Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - form of ownership; type of carrier; area of operation, operating revenue and tonnage, operating expenses; income account, household goods transportation revenue, balance sheet; employment; fuel consumption; equipment and estimated distance travelled; classification of motor carrier; classification of employees and compensation by type of employment, revenue equipment operated at close of year
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of 5,000 establishment sample. 50% self-completion, mail out/mail back; 45% telephone interview, 5% face to face personal interview. Collection period from March to October
- 4d. **Geographic Unit(s) of Measurement** Establishments, Canada, Provinces, Territories
- 4e. **Period of Record** Since 1974
- 4f. **Update Frequency** Annual
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file by class (I, II, III) Method(s) of dissemination include hard copy/printout, and tape. Customised tabulation or data file, also customised analytical studies. Reports
5. **Restrictions and Conditions** Release time December following the reference fiscal year. Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publications 50-002, 53-222
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Motor vehicles; Transportation; Trucking
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2742
 2. 1978 - Conversion to metric
 3. Survey undergoing analysis for revision
 4. The reporting unit is the "establishment" as defined in the *Standard Industrial Classification Manual* (Catalogue 12-501). However, in some instances, two or more establishments are reported and processed as a unit, because separate accounts are not kept by the respondents

National Cancer Incidence Reporting System

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Cancer incidence by type of cancer. The file includes geographic, demographic and personal identifying information.
- 2b. **Purpose of the Database** The system provides information on the incidence of cancer by population characteristics and geographic region, allows the monitoring of changes in trends of new primary sites of cancer incidence over time, and provides a data base for medical follow-up studies.
- 3a. **Name and Address of Responsible Organization** Information Production Unit, Canadian Centre for Health Information, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Nelson Nault (613) 951-1746 FAX: (613) 951-0792
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - age and sex
 - province of residence
 - SGC (code)
 - site of tumour, morphology of tumour
 - birthdate and birthplace
 - place of residence
 - death date
 - source of registration
 - method of diagnosis
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Administrative survey. 100% extraction from administrative files. Collection period continuous at provincial level, data are reported annually to Statistics Canada as they are available.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories; Census divisions.
- 4e. **Period of Record** Since 1969.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - hard copy/printout. Customised tabulation or data file also available. Number of variables 15. Main variables: Socio-demographic status, Cancer site, Histology of the cancer (since 1979 only), Date and method of diagnosis, Residence of patient (may also include deaths due to cancer and hospital separations where responsible diagnosis was cancer). Reports, CANSIM
5. **Restrictions and Conditions** Release time 3 to 4 years after the reference calendar year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 82-207. Non-catalogued publications include: *Estimating Current Year Cancer Incidence and Mortality in Canada: An Evaluation of Data Sources and Methodology* - Dolson, D.D., Gaudette, L.A.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Cancer; Diseases; Health; Morbidity.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3207.
 2. Other Unpublished Data Products: Name: Cancer Incidence: Table A - New Primary Sites of Cancer by ICD-9 Code, ICD-0 Morphology Code, Province of Residence and Sex (Table B - substitutes age group for province of residence), Method(s) of dissemination: Hard copy/printout, Name: Summary Data File; counts of new primary sites of cancer by 3 digit ICD code by province, sex, year of diagnosis and five year age group are available, together with corresponding population data from 1970-1984, Method(s) of dissemination: Tape.
 3. Canadian Cancer statistics is produced annually in collaboration with the Canadian Cancer Society.

National Farm Survey (NFS)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey produces annual data on the agricultural sector. It is based on a sample of farming operations.
- 2b. **Purpose of the Database** The survey serves the need for inter-censal information on agriculture.
- 3a. **Name and Address of Responsible Organization** Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Philip Stevens (613) 951-2435 FAX: (613) 951-3868
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - operating arrangements
 - land use, particularly areas seeded
 - cattle and calves
 - pigs
 - sheep and wool
 - other livestock or poultry
 - farm business expenses
 - agricultural receipts
 - capital values
- 4b. **Geographic Coverage** Provinces.
- 4c. **Data Acquisition Method(s)** Direct survey of 50,000 farms (provinces only, not territories). Data collection methods include 70.9% telephone interview; 19.8% face to face personal interview; 6.4% self-completion, mail out/mail back; 2.9% self-completion, mail out/pick up. Collection period from May 23 to July 7.
- 4d. **Geographic Unit(s) of Measurement** Provinces; Selected subprovincial regions.
- 4e. **Period of Record** Since 1972.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file. Method of dissemination: a) Hard copy/printout, b) Diskette, c) Tape. Also customised tabulation or data file.
5. **Restrictions and Conditions** Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publications 21-603; 22-002; 23-008; 23-203.
8. **Languages** Report is bilingual; database is in English.
9. **User Aids Available** Not applicable.
10. **Keywords** Agriculture; Land use; Livestock.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3439.
 2. 1988 - From 1983 to 1987 inclusive, the NFS survey design was based on the data from the 1981 Census of Agriculture. For the 1988 survey, the survey was redesigned using the 1986 Census of Agriculture results. In addition, when this redesigning was done, the June survey of areas seeded, which until then had been carried out independently of the NFS, was combined with the latter. The redesign was also accompanied by important changes in data-collection methods.
 3. New list and area samples are to be selected on the basis of the 1991 census results.
 4. Crop areas: Tabulations from first contact provided the 3rd week in June, Tabulations from second contact provided the 2nd week in August, Final tabulations provided the 2nd week in September; Livestock inventories: Tabulations from 2nd contact provided the 2nd week in August, Final tabulations provided the 2nd week in September; Expenses: Tabulation from second contact provided the 2nd week in August, Second tabulation from second contact provided the 2nd week in September, Final tabulations provided the 2nd week in October.

Passenger Bus and Urban Transit Statistics (Annual)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Contains a variety of information on the operating characteristics of the passenger bus and urban transit industry
- 2b. **Purpose of the Database** The objectives of the Passenger Bus and Urban Transit Survey, by priority, are as follows: to provide establishment-oriented industry statistics such as basic input and output data of the Canadian passenger bus and urban transit industries; to provide transportation-oriented statistics, including distance run, passengers and equipment operated; and, to classify new establishments entering the industry.
- 3a. **Name and Address of Responsible Organization** Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - form of ownership and area of operation
 - operating revenue and traffic operating expenses
 - income account, balance sheet
 - fuel consumption
 - equipment and estimated distance travelled
 - employment
 - general information
 - passengers
 - energy
 - vehicle
 - capital expense
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 1,000 establishments. 98% self-completion, mail out/mail back; 2% extraction from administrative files. Collection period from March to October.
- 4d. **Geographic Unit(s) of Measurement** Establishments; Canada; Provinces, Territories.
- 4e. **Period of Record** Since 1974.
- 4f. **Update Frequency** Annual.
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Customised tabulation or data file. Customised analytical studies. Reports.
5. **Restrictions and Conditions** Release time December following the reference fiscal year. Confidentiality of individual responses
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 53-215
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Transportation; Urban transit; Vehicles
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2743.

Production and Shipments of Plastic Bottles (Blow-Moulded)

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** This survey collects quarterly information on production and shipments from approximately 46 Canadian manufacturers of blow-moulded plastic bottles (both captive and those that ship bottles)
- 2b. **Purpose of the Database** Database supports research, planning and policy development.
- 3a. **Name and Address of Responsible Organization** Survey of Manufactures Section (Non-durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Raj Sehdev (613) 951-3513 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - type of bottles
 - production
 - shipments
 - quantity
 - total by size
 - materials used
 - type of resin
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of 46 manufacturers. 100% self-completion, mail out/mail back. Collection period from the 10th to the 26th day of the month following the quarter
- 4d. **Geographic Unit(s) of Measurement** Establishments, Canada
- 4e. **Period of Record** Since 1978
- 4f. **Update Frequency** Quarterly
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Release time 6 weeks after the reference quarter. Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publication 47-006
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Bottles; Packaging; Plastic; Plastic bottles
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2197
 2. Revisions made to preceding quarter(s) within the calendar year

Production, Shipments and Stocks On Hand of Sawmills East of the Rockies

- ii **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** The survey collects on a monthly basis (quantity figures only), information on the production, shipments and stocks on hand of lumber and ties of sawmills east of the Rockies from approximately 317 manufacturers of lumber and ties. These manufacturers represent at least 80% of the total lumber production in each province covered by the study.
- 2b. **Purpose of the Database** Serves data requirements of both industry and government.
- 3a. **Name and Address of Responsible Organization** Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jacques Lepage (613) 951-3516 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- production
 - stocks
 - total softwoods
 - total hardwoods
 - receipts of lumber
 - disposal of lumber
 - transfers out
 - waste and other losses
- 4b. **Geographic Coverage** Nova Scotia; New Brunswick; Québec; Ontario; Manitoba; Saskatchewan; Alberta.
- 4c. **Data Acquisition Method(s)** Direct survey of 317 establishments. 100% self-completion, mail out/mail back. Collection period monthly (end of each month).
- 4d. **Geographic Unit(s) of Measurement** Establishments; Provinces.
- 4e. **Period of Record** Since 1946.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Publications; CANSIM.
5. **Restrictions and Conditions** Release time 38 working days after the reference month.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 35-002.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Forestry; Industry; Sawmills.
11. **Additional Information**
1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2134.
 2. Benchmarked to Annual Survey of Manufactures, updated once a year.

Production, Shipments and Stocks On Hand of Sawmills in British Columbia

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** This survey collects, on a monthly basis, (quantity figures only), information on the production, shipments and stocks on hand of lumber and ties of sawmills in British Columbia
- 2b. **Purpose of the Database** Serves data requirements of both industry and government.
- 3a. **Name and Address of Responsible Organization** Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jock Dobie (604) 666-2671 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
- production
 - stocks
 - receipts from lumber and ties
 - disposals of lumber and ties
 - production, shipments, waste disposal and stocks of pulp chips
- 4b. **Geographic Coverage** British Columbia.
- 4c. **Data Acquisition Method(s)** Direct survey of 169 establishments that represent 95% of total known production. 100% self-completion, mail out/mail back. Collection period monthly.
- 4d. **Geographic Unit(s) of Measurement** Establishments; British Columbia; Other: B.C. Coast, B.C. Interior.
- 4e. **Period of Record** Since 1947.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Release time 38 working days after the reference month. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 35-003.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Forestry; Industry; Sawmills.
11. **Additional Information**
1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2135.
 2. All current questionnaires, surveys and publications are reviewed on an annual basis.

Projections of Population, Households and Families for Canada and the Provinces

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Projections of population, households and families for Canada, the provinces and territories are developed and published after each new census. The projections span a period of 25 years for provinces and 50 years for national figures and are given by age and sex.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Population Projections Section, Demography Division, Statistics Canada, 6th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Jeanine Perreault (613) 951-2346 Dr. M.V. George (613) 951-9580
FAX: (613) 951-2307
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - population by age and sex
 - projected annual numbers of births, migrants and deaths
 - types of households/families
 - age and sex of household/family maintainer
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Simulation.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Other: On request
- 4e. **Period of Record** Since 1969.
- 4f. **Update Frequency** Quinquennial.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file available on demand - a) Hard copy/printout, b) Diskette, c) Tape, d) Other, cartridge. Customised tabulations, forecasts etc. Reports, CANSIM.
5. **Restrictions and Conditions** Release time about 3 years after the date of the Census of Population.
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publications 91-520; 91-522
8. **Languages** Reports are bilingual.
9. **User Aids Available** Not applicable.
10. **Keywords** Demography; Households; Population.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3602.

Provincial Government Revenue and Expenditure (Estimates and Actual Data)

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** This survey documents the revenues and expenditures of the provincial and territorial governments and their respective boards, agencies and commissions on the basis of the Financial Management System. Estimates are compiled from data made available by provincial authorities at budget time. Actual data are later compiled when public accounts are published by provincial governments
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry
- 3a. **Name and Address of Responsible Organization** Public Finance Section, Public Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Terry Moore (613) 951-8306 FAX: (613) 951-0661
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)** revenue by source and expenditure by function on the basis of the Financial Management System
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Administrative survey. 100% extraction from administrative files. Collection period from April to June
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories
- 4e. **Period of Record** Since 1950
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Customised tabulation or data file Reports, CANSIM
5. **Restrictions and Conditions** Release time estimates are available June 30th of the reference fiscal year; Actual data are available in March, 24 months after the reference fiscal year. Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publication 68-207
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Expenditures; Government; Revenue
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1720

Road Motor Vehicle Survey (Fuel)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey collects a monthly summary of fuel sales derived from provincial and territorial fuel sales tax administrative records.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - sales of gasoline and aviation turbo-fuel
 - liquefied petroleum gases
 - diesel oil and other fuels
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Information is derived from provincial and territorial fuel sales tax administrative records.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1939.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Standard tabulation or data file - hard copy/printout. Customised tabulation or data file and customised analytical studies. Reports.
5. **Restrictions and Conditions** Release time 8 months after the reference month. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 53-218.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Fuel; Gasoline; Motor vehicles; Transportation.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746.

Road Motor Vehicles (Registration)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey presents statistics on road motor vehicle registrations, drivers' licences and dealers' permits, as obtained from the provincial and territorial governments.
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements of government and industry.
- 3a. **Name and Address of Responsible Organization** Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - vehicle registration by type
 - driver's licenses
 - dealers' permits
 - transfers from other provinces
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Derived survey. Information is collected from the provincial and territorial government departments responsible for motor vehicle registration. Collection period from January to August.
- 4d. **Geographic Unit(s) of Measurement** Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1903.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Release time 9 to 10 months after the reference fiscal year. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 53-219.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Motor vehicles; Transportation.
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2747.

Shipments of Plastic Film and Bags Manufactured from Resin

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey collects quarterly information on production and shipments from 58 Canadian manufacturers of plastic film and bags
- 2b. **Purpose of the Database** Supports requirements for information on this sector of the packaging industry.
- 3a. **Name and Address of Responsible Organization** Survey of Manufactures Section (Non-durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Raj Sehdev (613) 951-3513 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - production
 - shipments
 - destination
 - types of products
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 58 establishments. 100% self-completion, mail out/mail back. Collection period from the 10th to the 26th of the month following the reference quarter.
- 4d. **Geographic Unit(s) of Measurement** Establishments; Canada
- 4e. **Period of Record** Since 1978.
- 4f. **Update Frequency** Quarterly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports.
5. **Restrictions and Conditions** Release time 6 weeks after the reference quarter. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 47-007
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable.
10. **Keywords** Packaging; Plastic; Plastic bags; Plastic film
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2199
 2. Revisions made to preceding quarter(s) within the calendar year.

Thermal Generating Station Fuel Consumption

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** This is an annual survey collecting fuel consumption data from approximately 475 thermal generating plants
- 2b. **Purpose of the Database** Database supports research, planning and policy requirements for statistics on energy consumption
- 3a. **Name and Address of Responsible Organization** Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - type of station or component
 - fuel
 - average heat content
 - quantity
 - total cost
 - generation
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Direct survey of 475 generating plants. 100% self-completion, mail out/mail back. Collection period January 1 to March 1
- 4d. **Geographic Unit(s) of Measurement** Establishments, Canada, Provinces, Territories
- 4e. **Period of Record** Since 1955
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Not applicable
- 4h. **Output Format(s) (tables, maps, etc.)** Reports
5. **Restrictions and Conditions** Release time 1 year after the reference calendar year. Confidentiality of individual responses
6. **Price Information** Charge
7. **Corresponding Printed Sources** Statistics Canada Publication 57-202
8. **Languages** Reports are available in French and English
9. **User Aids Available** Not applicable
10. **Keywords** Energy; Fuel; Hydrocarbons; Thermal generating stations
11. **Additional Information** Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2196

Wholesale Trade Survey (Monthly)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** This survey presents estimates of monthly sales and inventories of wholesale merchant establishments classified by industry groups shown in the 1970 Standard Industrial Classification Manual, for Canada, and in aggregate for each province and territory.
- 2b. **Purpose of the Database** Database supports research, planning and policy development.
- 3a. **Name and Address of Responsible Organization** Wholesale Trade Section, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Gilles Berniquez (613) 951-3540 FAX: (613) 951-3522
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - geographical area
 - sales, receipts and inventories
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Direct survey of 2,700 establishment sample. 70% self-completion, mail out/mail back; 30% telephone interview. Collection period from 1st of following month to 7th of 3rd month.
- 4d. **Geographic Unit(s) of Measurement** Establishments; Canada; Provinces; Territories.
- 4e. **Period of Record** Since 1948.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Not applicable.
- 4h. **Output Format(s) (tables, maps, etc.)** Reports, CANSIM.
5. **Restrictions and Conditions** Release time occurs 40 days after the reference month. Confidentiality of individual responses.
6. **Price Information** Charge.
7. **Corresponding Printed Sources** Statistics Canada Publication 63-008.
8. **Languages** Reports are available in French and English.
9. **User Aids Available** Not applicable.
10. **Keywords** Industry; Trade; Wholesaling.
11. **Additional Information**
 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2401.
 2. Monthly estimates are revised to account for late response. Consequently, each month this publication contains preliminary estimates for the current month and revised estimates for the preceding month.
 3. 1981 - Methodology changed in regards to stratification, imputation, sampling and estimation and data now published under different breakdown (percentage changes Canada, Regions by major trade groups).
 4. 1989-01 - This survey is now under revision (WRTS redesign project). This revision involves a standardization of concepts and methods with other business surveys, use of standard source for frame data (CFDB) and the selection of a larger sample.
 5. Total net monthly sales and receipts shown are gross sales less returns and allowances excluding any sales taxes, and the value of inventories include goods owned or on consignment to other firms held at cost at the end of the month. Goods of other firms held by respondents on consignment are not included. Estimates for wholesale merchants of petroleum products (SIC 608) and grain (SIC 602 (part of)) are not included here. Also, estimates for agents and brokers - the other segment of Wholesale Trade are excluded.
 6. The values of sales and stocks are unadjusted for price changes, number of business days in the respective month, or for seasonal variations in business activity. The ratios of stocks to sales are obtained by dividing the aggregate value of stock estimates at month end for each industry group by the aggregate value of sales during the month.

TRANSPORT CANADA

<i>Transport Canada Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
BIRD STRIKE DATA	Mr. Robert O'Brien (613) 990-1402	224
CANADIAN COAST GUARD POLLUTION INCIDENT REPORTING SYSTEM	Mr. Tom Morris (613) 991-3170 Mr. Tom Fleck (613) 991-3166	224
DANGEROUS GOODS ACCIDENT INFORMATION SYSTEM (DGAIS)	Mr. Jonathan Rose (613) 990-1142 Mr. Donald Learning (613) 998-5265	225
ENVIRONMENTAL ASSESSMENT AND REVIEW PROCESS	Mr. Robert O'Brien (613) 990-1402	225
ENVIRONMENTAL SCREENING SYSTEM	Mr. Alec Simpson (613) 990-0512 Ms. Harriet Nichols (613) 990-0515	226
OPERATIONAL INCIDENT REPORTING SYSTEM (OIRS)	Mr. Dale Lahey (613) 990-3718	226
POTENTIAL POLLUTANTS MONITORING SYSTEM	Mr. Garry Tulipan (613) 991-6479 Mr. Jean-Pierre Roy (613) 998-1881 Mr. Brune Jacques (613) 991-6481	227
VEHICLE FUEL ECONOMY AND EMISSIONS SYSTEMS	Mr. Gary Murray (613) 998-2570	227

Bird Strike Data

1. **Datafile Name(s)** BIRD SAS 77 through (yearly) to BIRD SAS 88.
- 2a. **Summary Description of Contents** Inventory of all bird strikes to Canadian aircraft from 1977 to 1988 (yearly databases).
- 2b. **Purpose of the Database** To produce annual reports which support the Airport Wildlife Management Program.
- 3a. **Name and Address of Responsible Organization** Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Robert O'Brien (613) 990-1402 FAX: (613) 957-4260
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - operator, date and time
 - aircraft manufacturer/type
 - engine make and model
 - aerodrome/sky condition, runway used/precipitation, location/bird species
 - height of strike, speed of aircraft, number of birds seen, size of bird
 - phase of flight
 - aircraft parts struck/damaged, effects on aircraft, damage, injuries
 - pilot warned, damage costs, comments
- 4b. **Geographic Coverage** All airports that have Canadian aircraft flying into them (both civilian and military).
- 4c. **Data Acquisition Method(s)** Pilot Bird Strike Reports; DND Bird Strike Reports; Transport Canada Bird Strike Reports; Airline Bird Strike Reports.
- 4d. **Geographic Unit(s) of Measurement** Individual bird strike data. Incident details.
- 4e. **Period of Record** 1977 to 1988.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** Statistical Analysis Software (SAS).
- 4h. **Output Format(s) (tables, maps, etc.)** Annual summaries graphs and various reports.
5. **Restrictions and Conditions** Some information may be restricted.
6. **Price Information** None.
7. **Corresponding Printed Sources** Annual Bird Strike Reports published.
8. **Languages** English and French.
9. **User Aids Available** None.
10. **Keywords** Aircraft; Airports; Aviation; Bird strikes; Transportation.
11. **Additional Information** This database is also used to supplement the following:
 1. Airport Wildlife Management Bulletins.
 2. National Workshop - Airport Bird and Manual Control.

Canadian Coast Guard
Pollution Incident Reporting System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Inventory of pollution incidents from ships investigated by Canadian Coast Guard (CCG) Pollution Prevention officers.
- 2b. **Purpose of the Database** To produce annual reports concerning incidents, support prosecution of offenders and to analyze causes of incidents.
- 3a. **Name and Address of Responsible Organization** Pollution Prevention, Ship Safety Branch, Canadian Coast Guard, 11th floor, Canada Bldg., Minto Place, 344 Slater St., Ottawa, Ontario, K1A 0N7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Tom Fleck (613) 991-3166
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - name of ship involved in the incident
 - ship's country of registry
 - date of incident
 - classification of pollutant (i.e. oil, garbage, sewage, pollutant substance, air pollution)
 - type of pollutant (type of oil, etc.), quantity of pollutant
 - location (general area), reporting office of CCG
 - ship type (tanker, fishing vessel, etc.)
 - main cause (tank overflow, collision, grounding, etc.)
 - was the incident spotted during aerial surveillance
 - was evidence forwarded to a foreign administration for possible prosecution in a foreign court
 - were charges laid
 - was the accused found guilty
 - date of sentencing
 - amount of fine
 - remarks
- 4b. **Geographic Coverage** All Canadian internal waters, territorial seas, fishing zones and Arctic shipping safety control zones. On occasion reports of incidents beyond these waters are received.
- 4c. **Data Acquisition Method(s)** CCG Pollution Prevention officers in field offices report to headquarters. Department of Defence surveillance reports are forwarded through regional CCG offices.
- 4d. **Geographic Unit(s) of Measurement** Individual spills recorded by general area.
- 4e. **Period of Record** 1979 - present.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** AT type microcomputer using DBASE III software.
- 4h. **Output Format(s) (tables, maps, etc.)** Annual summaries and various reports.
5. **Restrictions and Conditions** Some information may be restricted.
6. **Price Information** None.
7. **Corresponding Printed Sources** No periodic publications.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Environmental prosecutions; Marine; Pollution; Ships; Spills.
11. **Additional Information**
 1. Copies of incident reports are forwarded to Environment Canada for inclusion in the National Analysis of Trends in Emergencies Systems (NATES).
 2. For the 10-year period from 1979 to 1988 just over 1,100 incidents were reported.
 3. Incidents include only those where the suspected source is a ship and where jurisdiction falls under the Canada Shipping Act or the Arctic Waters Pollution Prevention Act.

Dangerous Goods Accident Information System (DGAIS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Dangerous goods accidents reported under Section IX of the Transportation Dangerous Goods Regulations.
- 2b. **Purpose of the Database** To catalogue accidents, products involved, and accident particulars in support of risk assessment and regulatory amendments.
- 3a. **Name and Address of Responsible Organization** Transport Dangerous Goods Directorate, 14th Floor, Canada Building, Minto Place, 344 Slater Street, Ottawa, Ontario, K1A 0N5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jonathan Rose (613) 990-1142 Mr. Donald Learning (613) 998-5265
FAX: (613) 993-5925
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - accident description including date, location, time of day, amount of product released, mode, and initiating event
 - commodity description including shipping name, UN number, amount shipped, packaging
 - brief narrative describing accident in plain text
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Reports filed by the employer of the person having charge, management or control of the dangerous goods at the time of the accident.
- 4d. **Geographic Unit(s) of Measurement** Standard geographic codes.
- 4e. **Period of Record** 1985 - present.
- 4f. **Update Frequency** Daily as new reports are received.
- 4g. **Database Hardware/Software Configuration** Data reside on an IBM compatible microcomputer using DBASE III+ software.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, charts, or on diskette.
5. **Restrictions and Conditions** Company name and address information is protected as confidential. No restrictions as to accident particulars.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is in English.
9. **User Aids Available** A listing of the meaning of codings and a file structure is provided with data when provided on diskette.
10. **Keywords** Accidents; Dangerous goods; Spills; Transportation.
11. **Additional Information** None.

Environmental Assessment and Review Process

1. **Datafile Name(s)** EARP
- 2a. **Summary Description of Contents** Environmental screening decisions for all Airports Group Projects.
- 2b. **Purpose of the Database** To provide environmental assessment information to FEARO on a quarterly basis.
- 3a. **Name and Address of Responsible Organization** Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Robert O'Brien (613) 990-1402 FAX: (613) 957-4260
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - record number, project number, entry date
 - region/screening date, province/project completed, location/messages
 - airport
 - fiscal year
 - project description, screening decision, screening number
- 4b. **Geographic Coverage** All Canadian airports federally owned and operated by Transport Canada.
- 4c. **Data Acquisition Method(s)** Regional and Airport summaries sent to TC-HQ on a quarterly basis by Environmental Officers
- 4d. **Geographic Unit(s) of Measurement** Individual screening summaries
- 4e. **Period of Record** 1989 to present
- 4f. **Update Frequency** Every quarter
- 4g. **Database Hardware/Software Configuration** DBASE III+
- 4h. **Output Format(s) (tables, maps, etc.)** Quarterly summaries sent to FEARO
5. **Restrictions and Conditions** Some information may be restricted
6. **Price Information** None
7. **Corresponding Printed Sources** None
8. **Languages** English and French.
9. **User Aids Available** None
10. **Keywords** Airports; Aviation; Environmental assessment
11. **Additional Information** Information used to supplement EARP training and awareness programs

Environmental Screening System

1. **Datafile Name(s)** SCREENER.
- 2a. **Summary Description of Contents** SCREENER is a consultative system of environmental information for Canadian airports.
- 2b. **Purpose of the Database** The system provides access to the most current expertise on environmental impacts at airports.
- 3a. **Name and Address of Responsible Organization** Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Alec Simpson (613) 990-1402 Ms. Harriet Nichols (613) 990-0515
FAX: (613) 957-4260
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - terrestrial animals, terrestrial habitat
 - aquatic animals, aquatic habitat
 - vegetation, soils
 - surface waters, ground waters
 - land forms, land use
 - atmosphere
 - resource harvest, recreation
 - community facilities
 - employment and economy, people
- 4b. **Geographic Coverage** Individual airport environment settings recorded.
- 4c. **Data Acquisition Method(s)** Field information is input into the database by qualified personnel at each site.
- 4d. **Geographic Unit(s) of Measurement** Site specific.
- 4e. **Period of Record** Updated on a continuous basis.
- 4f. **Update Frequency** As available.
- 4g. **Database Hardware/Software Configuration** AT type microcomputer.
- 4h. **Output Format(s) (tables, maps, etc.)** Various screening decisions.
5. **Restrictions and Conditions** Some information may be restricted.
6. **Price Information** None.
7. **Corresponding Printed Sources** No periodic publications.
8. **Languages** The database is available in English.
9. **User Aids Available** SCREENER - *User's Guide to Version 2*; ENVED - *User's Guide to Version 3.1; The Knowledge Base*.
10. **Keywords** Airports; Aviation; Environmental assessment.
11. **Additional Information** Screening decisions for each airport project are rated from 1 to 9. The screening decisions are collected and entered into the EARP data and transferred for publication at Environment Canada.

Operational Incident Reporting System (OIRS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A database of irregular operations and incidents occurring at Transport Canada related airports in Canada.
- 2b. **Purpose of the Database** OIRS is a computerized system which provides the Airports Directorate with the ability to report on, analyze and investigate all irregular operations and incidents at all Transport Canada owned/operated/subsidized airports.
- 3a. **Name and Address of Responsible Organization** Airports Group, Transport Canada, Tower "C", 20th Floor, Ottawa, Ontario, K1A 0N8.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Dale Lahey (613) 990-3718 FAX: (613) 996-7037
- 3c. **Access Mechanisms** Through the Transport Canada Network.
- 4a. **Variables Included (summarized if extensive)**
 - incident number, site
 - local date and time
 - reportable type, location, details
 - type of spill, material, amount
 - area affected
 - on scene commander
 - spill source, cause, clean-up
- 4b. **Geographic Coverage** Canadian airports, regional offices.
- 4c. **Data Acquisition Method(s)** Data recorded by site/region/headquarters personnel.
- 4d. **Geographic Unit(s) of Measurement** Incident specific.
- 4e. **Period of Record** 1986 to present.
- 4f. **Update Frequency** As incidents occur.
- 4g. **Database Hardware/Software Configuration** Transport Canada Network.
- 4h. **Output Format(s) (tables, maps, etc.)** Generic forms.
5. **Restrictions and Conditions** Access given to Transport Canada employees.
6. **Price Information** None.
7. **Corresponding Printed Sources** None.
8. **Languages** The database is available in English and French.
9. **User Aids Available** *OIRS User's Manual* (Draft).
10. **Keywords** Airports; Aviation; Environmental impact; Spills.
11. **Additional Information** None.

Potential Pollutants Monitoring System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Volumes of potential pollutants shipped on Canadian waters, by port and by pre-defined route segments. Available on a monthly and annual basis. Risk indices, by port and pre-defined route segment, monthly and annual basis.
- 2b. **Purpose of the Database** Management information system, to be used for both quantitative information and policy input.
- 3a. **Name and Address of Responsible Organization** Statistics and Forecasts Economics, Marine and Surface, Economic Analysis, Transport Canada, Ottawa, Ontario, K1A 0N5.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Mr. Garry Tulipan (613) 991-6479 Mr. Jean-Pierre Roy (613) 998-1882
 Mr. Brune Jacques (613) 991-6481 FAX: (613) 957-3280
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - monthly and annual tonnages of 19 potential pollutant commodities plus total traffic volumes for 23 ports and 34 pre-defined route segments
 - ship type and size
 - risk indices for 23 ports and 34 pre-defined route segments
- 4b. **Geographic Coverage** All Canadian coastal waters, the St. Lawrence Seaway and the Great Lakes.
- 4c. **Data Acquisition Method(s)** Commercial marine shipping tapes, Statistics Canada
- 4d. **Geographic Unit(s) of Measurement** Commodity volumes in tonnes. Also risk indices: zero risk = 0, increases in units of 1; calibration allows for comparison between ports and route segments through time.
- 4e. **Period of Record** 1987 to 1989.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** SAS-PC database.
- 4h. **Output Format(s) (tables, maps, etc.)** Annual and monthly tables
5. **Restrictions and Conditions** None.
6. **Price Information** None.
7. **Corresponding Printed Sources** No periodic publications, information upon request.
8. **Languages** At present the database is in English only.
9. **User Aids Available** None.
10. **Keywords** Marine; Pollutants; Risk; Ships; Transportation.
11. **Additional Information** Additional developmental work to better meet requirements of users to be completed in the coming year

Vehicle Fuel Economy and Emissions Systems

1. **Datafile Name(s)** One file for each motor vehicle model year starting with 1986
- 2a. **Summary Description of Contents** A database of exhaust emission test results performed by the vehicle manufacturers in support of the fuel economy program.
- 2b. **Purpose of the Database** To monitor that fuel economy values have been calculated correctly
- 3a. **Name and Address of Responsible Organization** Energy and Emissions Engineering, Vehicle Safety and Energy Operations, Road Safety and Motor Vehicle Regulation Transport Canada, 344 Slater Street, Ottawa, Ontario, K1A 0N5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
 Mr. Gary Murray (613) 998-2570 FAX: (613) 998-4831
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - vehicle attributes including
 - engine size and type
 - transmission type
 - vehicle weight
 - vehicle sales
 - test specifications
 - test results
- 4b. **Geographic Coverage** Canada only
- 4c. **Data Acquisition Method(s)** Reports from industry
- 4d. **Geographic Unit(s) of Measurement** None
- 4e. **Period of Record** Motor vehicle model years since 1986
- 4f. **Update Frequency** Several reports each year
- 4g. **Database Hardware/Software Configuration** SAS-PC database on a COMPAQ 386
- 4h. **Output Format(s) (tables, maps, etc.)** All outputs are formatted
5. **Restrictions and Conditions** Database is confidential
6. **Price Information** No reports are available
7. **Corresponding Printed Sources** None
8. **Languages** The database is in English
9. **User Aids Available** Data Dictionary, Design Manual for users
10. **Keywords** Emissions, Fuel, Motor vehicles
11. **Additional Information**
 1. The database was recently moved from the corporate mainframe to a microcomputer network
 2. The fuel economy program is voluntary to the motor vehicle manufacturers, therefore the database is not complete

Section 5.2

Bibliographic Environmental Database Holdings, by Federal Government Department

Note: These databases provide references to publications, articles, maps and other databases.

BIBLIOGRAPHIC DATABASES

<i>Bibliographic Databases</i>	<i>Contact Name(s) and Phone Number(s)</i>	<i>Page</i>
AQUAREF	Mr. Ron Gauthier (819) 953-1531	232
AQUATIC TOXICITY: PROTOCOLS AND LITERATURE	Mr. Kenneth Doe (902) 426-3284	232
BIBLIOGRAPHY OF ST. LAWRENCE RIVER RESOURCES AND RESOURCE USE	Mrs. Lucie Olivier (514) 496-2272	233
BIBLIOGRAPHY ON ACID PRECIPITATION	Mr. Jean-Yves Charette (418) 649-6565	233
CANADIAN SOURCES OF ENVIRONMENTAL INFORMATION	Paulette Smith (819) 997-0217	234
CCME INVENTORY OF ENVIRONMENTAL PROTECTION RESEARCH AND DEVELOPMENT PROJECTS	Ms. Anne-Marie Lefebvre (819) 953-7246	234
D-REF (DATA REFERENCE)	Mr. Ron Gauthier (819) 953-1531	235
ENVIROSOURCE	Ms. Edith Dubois (819) 997-1254	235
INDEX OF MINERAL PROCESSING RESEARCH PROJECTS (RESPROC)	Dr. J.E. Kanasy (613) 995-4059	236
INDEX OF MINING TECHNOLOGY RESEARCH PROJECTS (RESMIN)	Dr. J.E. Kanasy (613) 995-4059	236
INTERNATIONAL ENERGY AGENCY - COAL (IEA COAL)	Dr. J.E. Kanasy (613) 995-4059	237
INTERNATIONAL ENERGY AGENCY COAL RESEARCH PROJECTS DATABASE	Dr. J.E. Kanasy (613) 995-4059	237
INTERNATIONAL ENERGY AGENCY ENERGY TECHNOLOGY DATA EXCHANGE	Dr. J.E. Kanasy (613) 995-4059	238
MINERAL PROCESSING ABSTRACTS (MINPROC)	Dr. J.E. Kanasy (613) 995-4059	238
MINING TECHNOLOGY ABSTRACTS (MINTEC)	Dr. J.E. Kanasy (613) 995-4059	239
OCEAN MINING CITATION RETRIEVAL SYSTEM	Ms. Helen Joseph (613) 992-3058	239
PARC (NATIONAL PARKS AND NATIONAL HISTORIC SITES IN QUEBEC)	Mrs. Hélène D'Amours (418) 648-7380	240
PESTICIDE RESIDUES ON PLANTS	Mr. Alain Baril (819) 997-6131	240
REMOTE SENSING ON-LINE RETRIEVAL SYSTEM (RESORS)	Mr. Louis Marcotte (613) 943-8833	241
SATELLITE IMAGERY CATALOGUE	Ms. Jean Game (613) 952 2717	241
SUSTAINABLE AGRICULTURE TASK FORCE DATABASE	Mrs. Judy Nicholson (613) 995-7228	242
WILDLIFE TOXICOLOGY BIBLIOGRAPHIC DATABASE	Mr. David Ward (819) 953-9508	242

AQUAREF

- 1 **Datafile Name(s)** Not applicable
- 2a **Summary Description of Contents** A bibliographic database referencing English and French reports, studies, conference proceedings, papers and journals on Canadian water resources and other related environmental topics. There is some international coverage depending on program scope.
- 2b **Purpose of the Database** To provide access to references pertaining to water resources literature produced by the Inland Waters Directorate, Environment Canada, and other agencies involved in water research.
- 3a **Name and Address of Responsible Organization** WATDOC, Inland Waters Directorate, Conservation and Protection, Environment Canada, 9th Floor, 351 St. Joseph Blvd., Hull, Québec, K1A 0H3.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ron Gauthier (819) 953-1531 FAX: (819) 997-8701
- 3c **Access Mechanisms** Searchable online through CAN/OLE, a retrieval system offered by the Canada Institute for Scientific and Technical Information (CISTI), available via the Datapac communications network.
- 4a **Variables Included (summarized if extensive)**
 - water resources, surface water and groundwater
 - sedimentation and erosion
 - flooding
 - hydrometeorology
 - agricultural hydrology
 - forest hydrology
 - satellite hydrology
 - ice, snow and glaciers
 - pollution
 - habitats
 - environmental impact assessment
- 4b **Geographic Coverage** National, more than 69,000 references.
- 4c **Data Acquisition Method(s)** Reports, studies, conference proceedings and papers are indexed. Over 60 Canadian and foreign journals are regularly monitored.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** 1970 - present.
- 4f **Update Frequency** Bi-monthly.
- 4g **Database Hardware/Software Configuration** Mainframe computer, micro IBM XT; CAN/OLE II (CISTI), DATAPAC, INMAGIC software.
- 4h **Output Format(s) (tables, maps, etc.)** Search results can be viewed online or printed offline at CISTI.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** CAN/OLE: \$40 per online connect hour.
- 7 **Corresponding Printed Sources** WATDOC produces bibliographies (e.g. Hydrological Events Bibliography), reports (e.g. Canada Water Act Reports) and Water Quality Branch publications from subsets of the AQUAREF database; the printed sources are produced on the basis of the needs of the contributing organizations.
- 8 **Languages** Bibliographic references to documents published in English and/or French.
- 9 **User Aids Available** WATDOC newsletter (new database developments and user information). CAN/OLE user manual (see 11).
- 10 **Keywords** Drinking water; Environmental impact; Freshwater; Groundwater; Hydrology; Hydrometeorology; Sedimentation; Snow; Ice; Wastewater treatment; Water; Water quality; Water resources.
- 11 **Additional Information**
 1. Any ASCII type terminal which can communicate in half-duplex at a speed of 10, 30 or 120 characters per second is compatible with CAN/OLE. Searches that generate a large number of references can be printed off line at the computer site.
 2. Contracts can be arranged and the user manual may be obtained by contacting Client Services, CAN/SDI, CISTI, National Research Council, Ottawa, Ontario, K1A 0S2, (613) 993-1210.

Aquatic Toxicity: Protocols and Literature

- 1 **Datafile Name(s)** Not applicable.
- 2a **Summary Description of Contents** Test protocols and aquatic toxicity test methods for fish, invertebrates, microorganisms and literature on substance toxicity.
- 2b **Purpose of the Database** To provide information on aquatic toxicity data for use in pollution control programs in the Atlantic region.
- 3a **Name and Address of Responsible Organization** Aquatic Toxicology Section, Laboratory Division, Conservation and Protection, Atlantic Region, Environment Canada, 15th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
- 3b **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Kenneth Doe (902) 426-3284 FAX: (902) 426-3574
- 3c **Access Mechanisms** Through the responsible organization.
- 4a **Variables Included (summarized if extensive)** Information sources referenced by: chemical; effects (e.g. behavioral, bioaccumulation); species (e.g. trout, algae, Daphnia).
- 4b **Geographic Coverage** International.
- 4c **Data Acquisition Method(s)** Journal and magazine searches and interagency contact.
- 4d **Geographic Unit(s) of Measurement** Not applicable.
- 4e **Period of Record** Historical - present.
- 4f **Update Frequency** Ongoing.
- 4g **Database Hardware/Software Configuration** Paper file.
- 4h **Output Format(s) (tables, maps, etc.)** Articles.
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** No charge.
- 7 **Corresponding Printed Sources** None.
- 8 **Languages** Articles in language of author.
- 9 **User Aids Available** None.
- 10 **Keywords** Aquatic ecosystems; Fish; Invertebrates; New Brunswick; Nova Scotia; Plants; Prince Edward Island; Toxic effects; Toxicology; Toxics; Water pollution.
- 11 **Additional Information** In addition to this literature database, the Division also has a variety of toxicity test data generated by the regional laboratory.

Bibliography of St. Lawrence River Resources and Resource Use

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Bibliographic references on the resources of the St. Lawrence River and their use.
- 2b. **Purpose of the Database** Identify studies conducted on the St. Lawrence River and the Saguenay River.
- 3a. **Name and Address of Responsible Organization** St. Lawrence Centre, Technological Development Directorate, Conservation and Protection, Environment Canada, Suite 400, 105 McGill Road, Montréal, Québec, H2Y 2E7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and Fax Number(s)**
Mrs. Lucie Olivier (514) 496-2272 FAX: (514) 283-9451
- 3c. **Access Mechanisms** Through the organization responsible
- 4a. **Variables Included (summarized if extensive)** Bibliographic references.
- 4b. **Geographic Coverage** St. Lawrence River and Saguenay River
- 4c. **Data Acquisition Method(s)** Bibliographic research and acquisitions.
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** 1975 to date.
- 4f. **Update Frequency** Yearly.
- 4g. **Database Hardware/Software Configuration** Microcomputer PC compatible, DBASE IV software.
- 4h. **Output format(s) (tables, maps, etc.)** Bibliographic references.
5. **Restrictions and Conditions** None.
6. **Price Information** None.
7. **Corresponding Printed Sources** None.
8. **Languages** Documents may be in French or in English.
9. **User Aids Available** Users Guide.
10. **Keywords** Dredging; Industry; Recreational areas; Sediments; St. Lawrence River; Water pollution; Water quality; Wetland ecosystems; Wetlands; Wildlife
11. **Additional Information** Direct access to the base is being developed.

Bibliography on Acid Precipitation

1. **Datafile Name(s)** None.
- 2a. **Summary Description of Contents** Collection of 1700 documents covering acid precipitation on an international level
- 2b. **Purpose of the Database** Collection of documents organized by subject matter (32 categories) and by author.
- 3a. **Name and Address of Responsible Organization** Inland Waters Directorate, Conservation and Protection, Québec Region, Environment Canada, 8th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Québec, G1V 4H5
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Jean-Yves Charette (418) 649-6565 FAX: (418) 648-4613
- 3c. **Access Mechanisms** Through the organization responsible
- 4a. **Variables Included (summarized if extensive)** Author, title, source, subject matter (32 categories)
- 4b. **Geographic Coverage** World-wide
- 4c. **Data Acquisition Method(s)** Bibliographic
- 4d. **Geographic Unit(s) of Measurement** None
- 4e. **Period of Record** 1970 - to date
- 4f. **Update Frequency** Irregular
- 4g. **Database Hardware/Software Configuration** Microcomputer IBM-PC compatible, KNOWLEDGEMAN, WORDPERFECT
- 4h. **Output format(s) (tables, maps, etc.)** Text
5. **Restrictions and Conditions** Consultation of documents on site only
6. **Price Information** Consultation on site without charge. Free listing on demand
7. **Corresponding Printed Sources** ACIDOC Base
8. **Languages** Original language of the document. System searches in French or English
9. **User Aids Available** Catalogue
10. **Keywords** Acid precipitation; Air pollution; Environmentally sensitive areas; Precipitation
11. **Additional Information** None

Canadian Sources of Environmental Information

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Database of names, addresses and descriptions of Canadian experts on environmental issues; searchable at four levels.
- 2b. **Purpose of the Database** To provide an up-to-date directory of specialists active in various fields of the environmental sciences, to provide the Canadian contribution to INFOTERRA, the United Nations Environment Program and to promote the exchange of environmental information.
- 3a. **Name and Address of Responsible Organization** Information Holdings Management Branch, Finance and Administration Service, Environment Canada, 3rd Floor, 351 St. Joseph Blvd., Hull, Québec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Paulette Smith (819) 997-0217 FAX: (819) 953-1099
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - name
 - address
 - phone and FAX number
 - expertise code
 - update and initial record date
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Periodically (every year or two) questionnaires are sent to known authorities and previous contributors who are also asked for names of other potential contributors.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1988 - present.
- 4f. **Update Frequency** Biennial; more frequent updates are being considered.
- 4g. **Database Hardware/Software Configuration** IBM compatible microcomputer with ORACLE.
- 4h. **Output Format(s) (tables, maps, etc.)** Text.
5. **Restrictions and Conditions** None.
6. **Price Information** Publication cost is \$50.
7. **Corresponding Printed Sources** Publication: *Canadian Sources of Environmental Information*.
8. **Languages** Records are in the language of the expert.
9. **User Aids Available** On-screen menus.
10. **Keywords** Environmental experts; Research.
11. **Additional Information** On line access through the Departmental Office Technology System (DOTS) is being considered.

CCME Inventory of Environmental Protection Research and Development Projects

1. **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Information on over 1,200 ongoing and completed environmental research and development projects conducted by federal and provincial governments, universities and some industries.
- 2b. **Purpose of the Database** To provide a reference for researchers to avoid project duplication, facilitate technical information transfer and provide a basis for the development of joint projects.
- 3a. **Name and Address of Responsible Organization** Technology Development Branch, Conservation and Protection, Environment Canada, 3439 River Road, Ottawa, Ontario, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Anne-Marie Lefebvre (819) 953-7246 FAX: (819) 953-9029
- 3c. **Access Mechanisms** Through the contact person, also via contacts in Ontario and Québec ministries of environment.
- 4a. **Variables Included (summarized if extensive)**
 - project title
 - project objectives
 - funding sources, amount
 - responsible agency, individual(s)
- 4b. **Geographic Coverage** National; over 1,200 research projects are identified and described in the database.
- 4c. **Data Acquisition Method(s)** Survey forms.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1987 - 1990.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** COMPAQ 286 microcomputer, MICRO-QUESTEL software.
- 4h. **Output Format(s) (tables, maps, etc.)** Information available on diskettes or paper copy.
5. **Restrictions and Conditions** None.
6. **Price Information** Cost recovery policy to be implemented.
7. **Corresponding Printed Sources** *National Inventory of Environmental Research and Development Projects, 1990*.
8. **Languages** Projects entered in language of submission; report is bilingual.
9. **User Aids Available** None.
10. **Keywords** Research.
11. **Additional Information** The database is slated for redevelopment. Databases in original report that are left out of this inventory because their information is duplicated in another national database.

D-REF (Data Reference)

- 1 **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** References to data holdings (readily accessible) pertaining to the occurrence and condition of freshwater; land-based sectors water use and potential impact on water; and related data of use to water resource engineers, scientists, and managers.
- 2b. **Purpose of the Database** To reference significant sources of water and related data.
- 3a. **Name and Address of Responsible Organization** Water Planning and Management Branch, Inland Waters Directorate, Conservation and Protection, Environment Canada, 9th Floor, 351 St. Joseph Blvd, Hull, Québec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Ron Gauthier (819) 953-1531 FAX: (819) 997-8701
- 3c. **Access Mechanisms** D-REF will eventually be mounted on CAN/OLE, a retrieval system offered by the Canada Institute for Scientific and Technical Information (CISTI), available via the DATAPAC communications network.
- 4a. **Variables Included (summarized if extensive)** For each database:
 - name of data collection, description of data collection
 - data category (physiographic, biological, groundwater, water quality, water use, stream flow, water level, etc.)
 - language, keywords
 - publications derived from, or useful in, analyzing data
 - funding agency, contact, fees
 - purpose or objectives
 - parameters measured, period of record, sampling frequency, update frequency
 - geographical area where data are collected, latitude, longitude
 - hardware/software, output information
 - reference source code
- 4b. **Geographic Coverage** All provinces and territories
- 4c. **Data Acquisition Method(s)** Database questionnaires and personal interviews within the department, as well as with other governmental, academic and private organizations dealing with water resources.
- 4d. **Geographic Unit(s) of Measurement** Varies among the data collections
- 4e. **Period of Record** 1850's - present.
- 4f. **Update Frequency** Irregular.
- 4g. **Database Hardware/Software Configuration** Micro IBM XT, INMAGIC software
- 4h. **Output Format(s) (tables, maps, etc.)** Text
- 5 **Restrictions and Conditions** None.
- 6 **Price Information** Not yet determined
- 7 **Corresponding Printed Sources** Proposed inventory/bibliography
- 8 **Languages** Reference descriptions are entered in the language in which the input form was completed.
- 9 **User Aids Available** D-REF Guidelines and Input Specifications. WATDOC Newsletter (new database developments, user information)
10. **Keywords** Hydrology; Hydrometeorology; Freshwater; Water; Water pollution; Water quality; Water resources.
11. **Additional Information** Publications in 7 and 9 are available from the responsible organization.

ENVIROSOURCE

- 1 **Datafile Name(s)** Not applicable
- 2a. **Summary Description of Contents** Descriptions of Environment Canada information holdings (information collections and databases) in all media and formats, procedures to access holdings, names and addresses of departmental contacts, accountability, subject indexes, etc.
- 2b. **Purpose of the Database** To identify and facilitate the retrieval of information on a department-wide basis in support of management decision making, public education and awareness, environmental indicators development, and environmental impact assessment. To facilitate cost-effective and coordinated management of Environment Canada's information holdings
- 3a. **Name and Address of Responsible Organization** Information Holdings Management Branch, Finance and Administration Service, Environment Canada, 3rd Floor, 351 St Joseph Blvd., Hull, Québec, K1A 0H3
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Edith Dubois (819) 997-1254 FAX: (819) 953-1099
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - database/collection title
 - media
 - type/size
 - purpose
 - description
 - subjects
 - period covered
 - language
 - status
 - access
 - departmental contact (name, address, phone number)
- 4b. **Geographic Coverage** Canada
- 4c. **Data Acquisition Method(s)** Questionnaires to departmental staff, followed by telephone calls for verification
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** 1991 - present
- 4f. **Update Frequency** Database- ongoing, published version- biennially
- 4g. **Database Hardware/Software Configuration** PC's and DEC work stations with ORACLE on the Departmental Office Technology System (DOTS)
- 4h. **Output Format(s) (tables, maps, etc.)** Text, lists
- 5 **Restrictions and Conditions** Database is available to Environment Canada employees online on DOTS. There is no restriction on access to published versions while copies last.
- 6 **Price Information** Not applicable
- 7 **Corresponding Printed Sources** *Envirosource Reference Directory to Information Holdings* (First Edition September, 1991)
- 8 **Languages** Database is in English and French
- 9 **User Aids Available** None at present
- 10 **Keywords** Information, Inventory
- 11 **Additional Information** None

Index of Mineral Processing Research Projects (RESPROC)

- 1 **Datafile Name(s)** RESPROC
- 2a. **Summary Description of Contents** Directory of research projects under way in Canada dealing with mineral processing.
- 2b. **Purpose of the Database** To meet information needs of researchers in both private and public sectors concerned with mineral processing.
- 3a. **Name and Address of Responsible Organization** Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario, K1A 0G1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J.E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** Through the contact person or on-line through QL Search Systems Inc., Ottawa.
- 4a. **Variables Included (summarized if extensive)**
 - topics include: mill administration; crushing, grinding, sizing, flotation; magnetic separation; gravity and heavy media separation; other separation; leaching; material handling; process control; tailing and waste management
 - each project: title; contact (name, address)
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Annual surveys of research institutions.
- 4d. **Geographic Unit(s) of Measurement** Individual projects.
- 4e. **Period of Record** 1989 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** On-line search capability is provided through QL Search Systems.
- 4h. **Output Format(s) (tables, maps, etc.)** Title of project, name, address of person to be contacted for further information.
5. **Restrictions and Conditions** None.
6. **Price Information** \$30.00/search by CANMET/LDSD staff. Applicable rates from QL Search Systems.
7. **Corresponding Printed Sources** *Index of Mineral Processing Projects* (annual).
8. **Languages** English and French for access protocol; information itself as supplied by original source.
9. **User Aids Available** None.
10. **Keywords** Industry; Minerals; Minerals industry; Non-renewable resources.
11. **Additional Information** Contact the individual whose name appears in 3b.

Index of Mining Technology Research Projects (RESMIN)

- 1 **Datafile Name(s)** RESMIN
- 2a. **Summary Description of Contents** Directory of research projects underway in Canada dealing with mining technology
- 2b. **Purpose of the Database** To meet information needs of researchers in both private and public sectors concerned with mining.
- 3a. **Name and Address of Responsible Organization** Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario, K1A 0G1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J.E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** Through the contact person or through QL Search Systems, Inc., Ottawa.
- 4a. **Variables Included (summarized if extensive)**
 - topics include: drilling and blasting, ground control; materials handling, equipment; mine leaching, backfilling; industrial engineering, mine design; health and safety; communications; surface environment; tailings
 - each project: title, organization, principal contact (name, address)
- 4b. **Geographic Coverage** Canada.
- 4c. **Data Acquisition Method(s)** Annual survey of researchers and institutions.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1989 - present.
- 4f. **Update Frequency** Annually.
- 4g. **Database Hardware/Software Configuration** Available for on-line searching by end-users on the QL Search Systems computer.
- 4h. **Output Format(s) (tables, maps, etc.)** Text.
5. **Restrictions and Conditions** None.
6. **Price Information** \$30.00/search by CANMET/LDSD staff. Applicable rates from QL Search Systems.
7. **Corresponding Printed Sources** *Index of Mining Technology Research Projects* (annual).
8. **Languages** English and French for access protocol; for project information, as provided by original source.
9. **User Aids Available** None.
10. **Keywords** Industry; Minerals; Mining; Mining industry; Non-renewable resources.
11. **Additional Information** CANMET/LDSD can provide information only about the database as such; for information about the projects themselves it is necessary to contact the individual whose name appears in the entry.

International Energy Agency - Coal (IEA COAL)

1. **Datafile Name(s)** COAL
- 2a. **Summary Description of Contents** A bibliographic database indexing world literature dealing with all aspects of coal science and technology.
- 2b. **Purpose of the Database** To meet information needs of member countries for all aspects of coal production and use.
- 3a. **Name and Address of Responsible Organization** IEA Coal Research, Gemini House, 10-18 Putney Hill, London, England, SW15 6AA.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Canadian Operating Agent, Dr. J.E. Kanasy, Director, Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 562 Booth Street, Ottawa, Ontario K1A 0G1
(613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** Through responsible organization, CAN/OLE Systems (National Research Council - Canadian Institute for Scientific and Technical Information, Ottawa, or QL Search Systems Inc., Ottawa).
- 4a. **Variables Included (summarized if extensive)**
 - topics include:
 - * economics and management
 - * reserves and exploration, mining
 - * coal preparation
 - * transport and handling
 - * coal properties
 - * processing and conversion, combustion
 - * waste management, environment, products
 - * occupational health and safety
- 4b. **Geographic Coverage** Worldwide.
- 4c. **Data Acquisition Method(s)** National literature is scanned by representatives of member countries; non-member country literature is scanned by operating agents
- 4d. **Geographic Unit(s) of Measurement** Country
- 4e. **Period of Record** 1976 - present.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** On-line searchable on NRC/CISTI'S CAN/OLE System; also available on QL Search Systems
- 4h. **Output Format(s) (tables, maps, etc.)** Bibliographic citations with abstracts; full text documents available from CANMET/LDSD, or as stated
5. **Restrictions and Conditions** Restricted to residents of member countries
6. **Price Information** Rates as determined by QL and CAN/OLE. \$30.00/search by CANMET/LDSD personnel.
7. **Corresponding Printed Sources** *Coal Abstracts* (annual)
8. **Languages** The database is in English.
9. **User Aids Available** *Coal Thesaurus*; *CAN/OLE User Manual*.
10. **Keywords** Coal; Coal technology; Energy; Extraction; Hydrocarbons; International; Non-renewable resources.
11. **Additional Information** None.

International Energy Agency Coal Research Projects Database

1. **Datafile Name(s)** COALPRO
- 2a. **Summary Description of Contents** An on-line directory of international coal research projects undertaken by member nations of the International Energy Agency.
- 2b. **Purpose of the Database** To meet information needs of member countries of the International Energy Agency
- 3a. **Name and Address of Responsible Organization** International Energy Agency Coal Research, Gemini House, 10-18 Putney Hill, London, England, SW15 6AA
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Canadian Operating Agent, Dr. J.E. Kanasy, Director, Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy Mines and Resources Canada, 562 Booth Street, Ottawa, Ontario K1A 0G1
(613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** Through the responsible organization or through CAN/OLE Systems (National Resources Council, Canadian Institute for Scientific and Technological Information, Ottawa)
- 4a. **Variables Included (summarized if extensive)**
 - topics include: economics of coal; coal reserves and exploration; coal mining (including health & safety); coal preparation, transportation and handling; coal processing and conversion; properties of coal; coal combustion; coal products; waste management and environment
 - for each project: title; description; principal researcher; funding; sponsor
- 4b. **Geographic Coverage** International member nations of the International Energy Agency
- 4c. **Data Acquisition Method(s)** Operating agents of member nations supply information by surveying researchers in government, industrial and university laboratories
- 4d. **Geographic Unit(s) of Measurement** Country
- 4e. **Period of Record** 1987 - present
- 4f. **Update Frequency** Annually
- 4g. **Database Hardware/Software Configuration** Designed for on-line searching on CAN/OLE System
- 4h. **Output Format(s) (tables, maps, etc.)** Text
5. **Restrictions and Conditions** Open to residents of member countries only
6. **Price Information** Rates as established by NRC/CISTI. \$30.00 per search conducted by CANMET/LDSD staff
7. **Corresponding Printed Sources** *Coal Research Projects* (an annual directory)
8. **Languages** Database is in English
9. **User Aids Available** *CAN/OLE User Manual*
10. **Keywords** Coal; Energy; Extraction; International; Minerals; Mining; Non-renewable resources; Technology
11. **Additional Information** None

International Energy Agency Energy Technology Data Exchange

- 1 **Datafile Name(s)** ENERGY (EDB file 103)
- 2a **Summary Description of Contents** Bibliographic database covering energy technology literature published worldwide.
- 2b. **Purpose of the Database** To meet the needs of researchers in the field of energy research and development.
- 3a **Name and Address of Responsible Organization** ETDE Operating Agent, Office of Scientific & Technical Information, U.S. Department of Energy, P.O. Box 62, Oak Ridge, Tennessee, U.S.A., 37831.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Canadian Representative, IEA, ETDE, Dr. J.E. Kanasy, Director, Library and Documentation Services Division, Energy, Mines and Resources Canada, 562 Booth Street, Ottawa, Ontario K1A 0G1
(613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** Through the responsible organization or DIALOG Information Systems, Inc., Palo Alto, California 94304 U.S.A. (800-3-DIALOG)
- 4a. **Variables Included (summarized if extensive)**
 - topics include: fossil fuels; nuclear energy; fusion energy; renewable energy; energy storage and conversion; advanced energy systems; environment; energy policy
 - abstracts and bibliographic citations
- 4b. **Geographic Coverage** Worldwide.
- 4c. **Data Acquisition Method(s)** Each national representative surveys the national literature and submits a machine readable copy to the operating agent; literature from non-member countries is contributed by the operating agent and by certain of the member countries.
- 4d. **Geographic Unit(s) of Measurement** Country.
- 4e. **Period of Record** 1987 - present.
- 4f. **Update Frequency** Twice a month.
- 4g. **Database Hardware/Software Configuration** On-line searchable on the DIALOG Information Systems computers.
- 4h. **Output Format(s) (tables, maps, etc.)** Text, bibliographic citations with abstracts.
5. **Restrictions and Conditions** Available for on-line searching to residents of member countries only.
6. **Price Information** \$33.00/search by CANMET/LDSD staff. Applicable rates from Dialog Information Systems.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is in English.
9. **User Aids Available** User aids are made available by DIALOG Information Systems.
10. **Keywords** Energy; Hydrocarbons; International; Non-renewable energy; Nuclear energy; Renewable energy; Technology.
11. **Additional Information** None.

Mineral Processing Abstracts (MINPROC)

- 1 **Datafile Name(s)** MNP
- 2a **Summary Description of Contents** A bibliographic database of periodical literature concerned with mineral processing.
- 2b. **Purpose of the Database** To serve the research needs of Canadian scientists and engineers working in mineral processing in both the public and private sectors
- 3a. **Name and Address of Responsible Organization** Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario, K1A 0G1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J.E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** File MNP available on QL Search Systems Ltd. (Ottawa) or through CANMET/LDSD.
- 4a. **Variables Included (summarized if extensive)**
 - topics include: physical separation processes; hydrometallurgical extraction; purification and recovery of metals; pyrometallurgical processes; waste disposal, environment, safety; plants and equipment; reviews, forecasts, symposia
- 4b. **Geographic Coverage** Canadian and foreign material of interest to the Canadian mineral industry.
- 4c. **Data Acquisition Method(s)** Material selected from 150 plus international journals, books, conference proceedings, dissertations; patent-literature is also included.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1968 - present.
- 4f. **Update Frequency** Biweekly.
- 4g. **Database Hardware/Software Configuration** Commercially mounted on QL Search Systems Inc. for end-user on-line searching.
- 4h. **Output Format(s) (tables, maps, etc.)** Bibliographic citations with abstracts.
5. **Restrictions and Conditions** None.
6. **Price Information** QL rates as applicable. \$30.00/ search CANMET/LDSD staff.
7. **Corresponding Printed Sources** MINPROC Bulletin (bi-weekly).
8. **Languages** English and French titles and keywords, abstracts primarily in English, occasionally in French and English.
9. **User Aids Available** Mineral processing thesaurus.
10. **Keywords** Industry; Mineral processing; Minerals; Minerals industry; Non-renewable resources.
11. **Additional Information** The full text of each document cited in the database is available from CANMET/LDSD.

Mining Technology Abstracts (MINTEC)

1. **Datafile Name(s)** MNT
- 2a. **Summary Description of Contents** A bibliographic database of periodical literature concerned with mining engineering.
- 2b. **Purpose of the Database** To serve research literature needs of Canadian scientists and engineers working in the mining industry, in government departments, and universities.
- 3a. **Name and Address of Responsible Organization** Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario, K1A 0G1.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Dr. J.E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
- 3c. **Access Mechanisms** File MNT available on QL Search Systems Inc. (Ottawa) or through CANMET/LDSD.
- 4a. **Variables Included (summarized if extensive)**
 - topics include: plant construction and maintenance; development and production methods; ground control; rock breakage (drilling, blasting, etc.); materials handling; working environment and safety; mine geology; planning and engineering; waste disposal, environment and reclamation; tunnels and tunnelling; miscellaneous (groundwater control)
- 4b. **Geographic Coverage** Canadian and foreign material from worldwide sources but with a Canadian bias.
- 4c. **Data Acquisition Method(s)** Material is selected by scanning 160 journals, supplemented by report literature, conference papers, dissertations and patents
- 4d. **Geographic Unit(s) of Measurement** Not applicable
- 4e. **Period of Record** 1968 - present.
- 4f. **Update Frequency** Biweekly.
- 4g. **Database Hardware/Software Configuration** Database is commercially mounted for on-line access with QL Search Systems.
- 4h. **Output Format(s) (tables, maps, etc.)** Bibliographic citations with abstracts.
5. **Restrictions and Conditions** None
6. **Price Information** Rates established by QL. \$30 00/search by LDSD staff
7. **Corresponding Printed Sources** MINTEC Bulletin (biweekly).
8. **Languages** Access protocols are in English and French; abstracts are primarily in English, less frequently in French and English.
9. **User Aids Available** Thesaurus of mining terms.
10. **Keywords** Mining industry; Mining technology.
11. **Additional Information** Copies of full text documents are available from CANMET/LDSD

Ocean Mining Citation Retrieval System

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** An international bibliographic database covering various aspects of ocean mining
- 2b. **Purpose of the Database** To provide information sources on topics related to ocean mining
- 3a. **Name and Address of Responsible Organization** Ocean Mining Division, Mineral Policy Sector, Energy, Mines and Resources Canada, 11th floor, 460 O'Connor Street, Ottawa, Ontario, K1A 0E4
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms Helen Joseph (613) 992-3058 FAX: (613) 992-5893
- 3c. **Access Mechanisms** Through the responsible organization
- 4a. **Variables Included (summarized if extensive)**
 - author
 - author affiliation
 - article source
 - keywords
- 4b. **Geographic Coverage** International
- 4c. **Data Acquisition Method(s)** Literature review
- 4d. **Geographic Unit(s) of Measurement** Individual references (no location details provided)
- 4e. **Period of Record** Database initiated in 1975, articles cover 1950 - present
- 4f. **Update Frequency** Ongoing
- 4g. **Database Hardware/Software Configuration** CYBER mainframe computer with custom software. Conversion to INMAGIC software on a PC is in progress.
- 4h. **Output Format(s) (tables, maps, etc.)** Literature citations
5. **Restrictions and Conditions** None
6. **Price Information** No charge
7. **Corresponding Printed Sources** None
8. **Languages** Database is in English
9. **User Aids Available** One-page handout describing database
10. **Keywords** International; Marine, Mining, Ocean mining
11. **Additional Information**
 1. Topics covered include geology, deep sea mining, mining technology, legal aspects, environmental studies
 2. The emphasis on ocean minerals makes this database different from others covering general topics in geology, oceanography

PARC
(National Parks and National Historic Sites in Quebec)

1. **Datefile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** Information on National Parks and National Historic Sites in Quebec.
- 2b. **Purpose of the Database** To organize and make more accessible information used in studies undertaken by the Quebec regional office of the Canadian Parks Service. The studies themselves are also part of the file.
- 3a. **Name and Address of Responsible Organization** Canadian Parks Service, Quebec Region, Environment Canada, 3 Buade Street, P.O. Box 6060, Quebec City, Quebec, G1R 4V7.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX number(s)**
Mrs. H  l  ne D'Amours (418) 648-7380 FAX: (418) 648-4234
- 3c. **Access Mechanisms** Through the organization responsible.
- 4a. **Variables Included (summarized if extensive)** Bibliographic references.
- 4b. **Geographic Coverage** Province of Quebec.
- 4c. **Data Acquisition Method(s)**
 - purchases
 - acquisitions of documents
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** 1976 to date.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** Microcomputer; EDIBASE software.
- 4h. **Output format(s) (tables, maps, etc.)** Bibliographic references.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** The system includes documents in French and in English. The system itself operates only in French.
9. **User Aids Available** None.
10. **Keywords** National parks; Quebec.
11. **Additional Information** None.

Pesticide Residues on Plants

1. **Datefile Name(s)** Not applicable
- 2a. **Summary Description of Contents** A bibliographic database and data extracted from the literature on pesticide residue concentrations on crop and non-crop plants in target spray zones immediately following and at various times after spray.
- 2b. **Purpose of the Database** To provide a research database in support of the Canadian Wildlife Service's advisory role in pesticide evaluation and registration.
- 3a. **Name and Address of Responsible Organization** National Wildlife Research Centre, Canadian Wildlife Service, Environment Canada, 100 Gamelin Blvd., Hull, Qu  bec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Alain Baril (819) 997-6131 FAX: (819) 953-6612
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - citation
 - crop, pesticide
 - residue level
 - application methods, rate, equipment used
 - country of study
- 4b. **Geographic Coverage** International.
- 4c. **Data Acquisition Method(s)** Literature search.
- 4d. **Geographic Unit(s) of Measurement** Country in which study conducted.
- 4e. **Period of Record** 1970 - 1989.
- 4f. **Update Frequency** Literature continually reviewed and retained, but timing of database update uncertain.
- 4g. **Database Hardware/Software Configuration** IBM PC with DBXL.
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** A final bibliography and summary tables indicating pesticide, crop, application details and residue levels have been printed from the database.
8. **Languages** The database is in English.
9. **User Aids Available** None.
10. **Keywords** Agriculture; Biota; Contaminants; Pesticides; Plants; Residues; Toxics.
11. **Additional Information** None.

Remote Sensing On-line Retrieval System (RESORS)

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A global bibliographic database of documents and slides related to remote sensing and photogrammetry.
- 2b. **Purpose of the Database** To gather and document information on remote sensing observations, technology and applications.
- 3a. **Name and Address of Responsible Organization** Canada Centre for Remote Sensing, Energy, Mines and Resources Canada, 1547 Merivale Road Ottawa, Ontario, K1A 0Y7. The database is maintained by Horler Information Inc. at the same address.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. Louis Marcotte (613) 943-8833 FAX: (613) 996-9843
- 3c. **Access Mechanisms** Through the responsible agency; on-line access is available
Delegated searches on request.
- 4a. **Variables Included (summarized if extensive)**
 - bibliographic information
 - satellites listing
 - acronyms
 - organizations
 - glossary
- 4b. **Geographic Coverage** Global; 75,000 documents.
- 4c. **Data Acquisition Method(s)** Bibliographic documents, newsletters, requests from publication authors, subscriptions.
- 4d. **Geographic Unit(s) of Measurement** Documents coded by state, province and country
- 4e. **Period of Record** 1950 - present.
- 4f. **Update Frequency** Monthly.
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Three formats: reference citations; citations plus keywords; abbreviated citations from index searches.
5. **Restrictions and Conditions** None.
6. **Price Information** Charges for on-line use and delegated searches on-line: \$1.00/minute for connect time and \$0.10 per reference. Delegated: \$0.25/reference
7. **Corresponding Printed Sources** A hard copy of each reference document is held at the Centre.
8. **Languages** The database and users aids are bilingual.
9. **User Aids Available** On-line glossary of terms; User's guide; Keyword dictionaries; List of satellites; List of acronyms; List of remote sensing organizations
10. **Keywords** Image-processing; Photogrammetry; Remote sensing
11. **Additional Information** This database could be used to locate remote sensing data and information sources useful for state of the environment reporting

Satellite Imagery Catalogue

1. **Datafile Name(s)** Data filed by satellite and location
- 2a. **Summary Description of Contents** An archive listing of images of Canada from LANDSAT, SPOT and MOS 1 satellites
- 2b. **Purpose of the Database** To provide assistance for access to satellite image data for Canada
- 3a. **Name and Address of Responsible Organization** Canada Centre for Remote Sensing, Energy Mines and Resources Canada, 2464 Sheffield Road, Ottawa, Ontario, K1A 0Y7
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Ms. Jean Gagne, Energy, Mines and Resources, 4th Floor, 1547 Merivale Road, Ottawa Ontario, K1A 0Y7
(613) 952-2717 FAX: (613) 952-7353
- 3c. **Access Mechanisms** Through the responsible organization, on-line access is available.
- 4a. **Variables Included (summarized if extensive)**
 - sensor
 - location (latitude, longitude; satellite indexing system)
 - date
 - cloud cover
 - data quality
- 4b. **Geographic Coverage** National
- 4c. **Data Acquisition Method(s)** Satellite records
- 4d. **Geographic Unit(s) of Measurement** Data from individual images referenced by latitude, longitude and Landsat World Reference System
- 4e. **Period of Record** 1972 - present
- 4f. **Update Frequency** Periodically as data is received
- 4g. **Database Hardware/Software Configuration** VAX computer with custom software
- 4h. **Output Format(s) (tables, maps, etc.)** Tables, text
5. **Restrictions and Conditions** An account and password are required for access
6. **Price Information** On-line charges depend on request
7. **Corresponding Printed Sources** A hard copy of the catalogue has been printed
8. **Languages** Database is bilingual
9. **User Aids Available** Query user's manual
10. **Keywords** Image-processing, Remote sensing
11. **Additional Information**
 1. This database is very user friendly and time efficient
 2. Data tapes, photographs and other products may be obtained from the Order Office, Radarsat International Inc., Suite 660, 101-6th Ave. S.W., Calgary Alberta, telephone (403) 237-8860, FAX (403) 265-9109

Sustainable Agriculture Task Force Database

1. **Datafile Name(s)** Not applicable.
- 2a. **Summary Description of Contents** A bibliographic database on sustainable agriculture in Canada used by the Sustainable Agriculture Task Force.
- 2b. **Purpose of the Database** To reference and collect document on sustainable agriculture for the Task Force working group.
- 3a. **Name and Address of Responsible Organization** Research Branch, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mrs. Judy Nicholson (613) 995-7228 FAX: (613) 996-2690
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - author, title, document location
 - key words (subject, geographic coverage, etc.)
- 4b. **Geographic Coverage** National mainly, some international coverage.
- 4c. **Data Acquisition Method(s)** Documents provided by task force.
- 4d. **Geographic Unit(s) of Measurement** Not applicable.
- 4e. **Period of Record** Most documents 1984 - present.
- 4f. **Update Frequency** As documents are received.
- 4g. **Database Hardware/Software Configuration** VAX computer with SYSTEM 1032 software.
- 4h. **Output Format(s) (tables, maps, etc.)** Text.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** Lists of references by keyword can be prepared.
8. **Languages** Reference are input in the language in which they were published.
9. **User Aids Available** A user aid is available on computer at the beginning of the database.
10. **Keywords** Agriculture; Harvesting; Sustainable development.
11. **Additional Information**
 1. This database is under development. It is currently set up as a working tool for the taskforce.
 2. There is also a larger database on sustainable agriculture at MacDonald College, McGill University in Montreal (contact Dr. Stewart Hill); Agriculture Canada is working with McGill University staff to avoid database duplication.

Wildlife Toxicology Bibliographic Database

1. **Datafile Name(s)** Bio.fil, Pest.fil, Contam.fil.
- 2a. **Summary Description of Contents** Scientific papers about the effects of pesticides and other contaminants on wildlife.
- 2b. **Purpose of the Database** To provide efficient access to a large collection of wildlife toxicology literature.
- 3a. **Name and Address of Responsible Organization** Canadian Wildlife Service, National Wildlife Research Centre, Environment Canada, 100 Gamelin Blvd., Hull, Québec, K1A 0H3.
- 3b. **Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)**
Mr. David Ward (819) 953-9508 FAX: (819) 953-6612
- 3c. **Access Mechanisms** Through the responsible organization.
- 4a. **Variables Included (summarized if extensive)**
 - author, title, publication year
 - citation
 - key words
 - document location
 - field study geographic location (continent, country, state, province)
 - species group (Biofile)
- 4b. **Geographic Coverage** International, with emphasis on North American papers.
- 4c. **Data Acquisition Method(s)** Literature review by CWS personnel.
- 4d. **Geographic Unit(s) of Measurement** Field studies referenced by continent, country, state or province.
- 4e. **Period of Record** 1930's - present.
- 4f. **Update Frequency** Continuously; kept very current.
- 4g. **Database Hardware/Software Configuration** IBM PC with CARDBOX PLUS.
- 4h. **Output Format(s) (tables, maps, etc.)** Text or ASCII file on diskette.
5. **Restrictions and Conditions** None.
6. **Price Information** No charge.
7. **Corresponding Printed Sources** None.
8. **Languages** Database is in English.
9. **User Aids Available** Database keywords conform to accompanying thesaurus.
10. **Keywords** Contaminants; Pesticides; Pollution; Toxics; Toxicology; Wildlife.
11. **Additional Information** An index to incorporate selected words in reference titles is under development and alternative storage systems are being assessed.

6. References

Environment Canada and Statistics Canada (1986). **State of the Environment Report for Canada.** Catalogue EN 21-54/1986E, Environment Canada, Ottawa.

Government of Canada (1991). **The State of Canada's Environment.** Catalogue EN21-54/1991E, Government of Canada, Ottawa.

Keddy, C.J. and T. McRae (1989). **Environmental Databases for SOE Reporting: Conservation and Protection Headquarters.** Technical Report No. 9, SOE Reporting Branch, Environment Canada, Ottawa.

McRae, T. (1990). **Environmental Databases for State of the Environment Reporting: Atmospheric Environment Service, Canadian Parks Service, Corporate Policy Group, Environment Canada Regional Offices.** Technical Report No. 16, State of the Environment Reporting Branch, Environment Canada, Ottawa.

Statistics Canada (1986). **Human Activity and the Environment: A Statistical Compendium.** Catalogue 11-509E, Structural Analysis Division, Statistics Canada, Ottawa.

Statistics Canada (1990a). **Databases for Environmental Reporting: Federal Government Departments, excluding Environment Canada.** Internal Working Paper, Environment and Natural Resources Section, Statistics Canada, Ottawa.

Statistics Canada (1990b). **Statistical Data Documentation System.** Standards Division, Statistics Canada, Ottawa.

Statistics Canada (1991). **Human Activity and the Environment, 1991.** Catalogue 11-509E, Environment and Wealth Accounts Division, Statistics Canada, Ottawa.

7. Additional Items

7.1 Environmental Database Information Form

The Environmental Database Information Form is presented on the next two pages. Potential contributors are asked to photocopy, complete and mail (or FAX) the form to the address provided. Contributions may also be provided by telephone.

Environmental Database Information Form

Database Name and Acronym	1. Data File Name(s)
2a. Summary Description of Contents	2b. Purpose of the Database
3a. Name and Address of Responsible Organization	
3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	
3c. Access Mechanisms	
4a. Variables Included (summarized if extensive)	4b. Geographic Coverage
	4c. Data Acquisition Method(s)
	4d. Geographic Unit(s) of Measurement

4e. Period of Record	4f. Update Frequency
4g. Database Hardware/Software Configuration	4h. Output Format(s) (tables, maps, etc.)
5. Restrictions and Conditions	6. Price Information
7. Corresponding Printed Sources	8. Languages
9. User Aids Available	10. Keywords
11. Additional Information	
Please photocopy, complete and return to: Environment Statistics Section National Accounts and Environment Division Statistics Canada 21st Floor, R.H. Coats Building Ottawa, Ontario K1A 0T6	For questions, clarification or completing a form by phone call: Murray Cameron, Statistics Canada Tel: (613) 951-3740 FAX: (613) 951-3618 or Bruce Mitchell, Statistics Canada Tel: (613) 951-3742 FAX: (613) 951-3618

7.2 List of Database Titles by Subject Matter Categories

In this report databases have been listed by the responsible federal department. To aid users, this section lists the same databases classified by broad subject matter categories. The subject matter headings are drawn from the *Population Environment Process Framework (PEP)*. This framework was used as the organizing basis for Statistics Canada's (1991) environmental publication "*Human Activity and the Environment, 1991*". The framework includes categories (see Table 2) on Human Population, Social and Economic institutions and elements of the environment and the processes of interaction that take place among these entities. In many cases databases can be found under a variety of subject headings. For additional information on the PEP framework refer to "*Human Activity and the Environment, 1991*", Statistics Canada (1991).

Table 2: Subject Matter Categories

<i>PEP Subject Category</i>
Population Population Human Health Environmental Regulation, Management and Assessment
Socioeconomic Activities (production, consumption, construction) Manufacturing and Energy Production Transporting Household Consumption Generation of Wastes Management of Wastes Harvesting Extraction of Resources (including water) Restructuring of Land and Water Systems
Natural Systems Water Quality Air Quality Soil Quality Status of Biota (including Wildlife and Fish) Ecosystem State Status of Other Resources (minerals, water quantity) Natural Processes (storms, erosion, etc.)

List by Subject

Population

Population

Census of Population (page 206)
Environmental Information System (GIS Component) (page 209)
Estimates of Population by Marital Status, Age and Sex for Canada, the Provinces and the Territories (page 210)
General Social Survey - Cycle 1 (GSS-85) (page 211)
General Social Survey - Cycle 4 (GSS-89) (page 212)
Projections of Population, Households and Families for Canada and the Provinces (page 219)
Public Opinion on the Environment (page 95)
Survey of Atlantic and Pacific Fishermen Database (page 136)

Human Health

Additive Database System (ADS) (page 180)
Canadian Mortality Data Base (page 204)
Hospital Morbidity (page 212)
International Register of Potentially Toxic Chemicals Database (IRPTC) (page 180)
Multi-City Acid Aerosol Study (page 181)
National Cancer Incidence Reporting System (page 216)
Ontario Hospital Admissions and Ambient Air Quality (page 181)
Pesticide Database System (PDS) (page 182)

Environmental Regulation, Management and Assessment

Artifact Information System (AIS) (page 47)
Automated Water Quality Monitoring Data (page 49)
Canadian Coast Guard Pollution Incident Reporting System (page 224)
CCME Inventory of Environmental Protection Research and Development Projects (page 234)
Chemical Profiles Database - Schedule II Transportation of Dangerous Goods (CHEMPROF) (page 56)
CITES (Convention on International Trade in Endangered Species) Import/Export Permits (page 58)
Conservation Areas Database (page 60)
Domestic Substances List (DSL) (page 62)
Environmental Assessment and Review Process (page 225)
Environmental Information System (GIS Component) (page 209)
Environmental Screening System (page 226)
Envirosource (page 235)

Historic Sites and Monuments Board of Canada/Systems Planning (HSMBC/SP) (page 69)
Hydrometric Data File (page 69)
Importance of Wildlife to Canadians (page 71)
Information on Regulated Emissions of the Petroleum Refining Industry in Quebec (page 73)
Lake Superior Shore Property Inventory and Damage Survey (page 75)
Land Administration System (LAS) (page 186)
Local Government Financial Management Statistics - Capital Expenditures (page 214)
Local Government Gross Revenue and Expenditures (Actual Data) (page 215)
Maritime Provinces Strategic Land Use Database (page 78)
Mine Compliance Data (page 81)
Municipal and Industrial Strategy for Abatement - Iron and Steel Industry Database (page 82)
National Analysis of Trends in Emergencies System (NATES) (page 84)
Nuclear Data System (NUDAT) (page 89)
Ocean Dumping Permit System (ODUMP) (page 90)
PARC (National Parks and National Historic Sites in Quebec) (page 240)
Park Use Related Data System (PURDS) (page 92)
Pest Management Research Information System (PRIIS) (page 14)
Pesticide Registrant Survey (page 92)
Prairie Rural Water Development Program Projects (page 15)
Prototype Northern Mining Records System (page 191)
Provincial Government Revenue and Expenditure (Estimates and Actual Data) (page 219)
Public Opinion on the Environment (page 95)
Restricted Information System for Chemicals Ontario Region PCB Inventory (page 99)
Restricted Information System for Chemicals Quebec Region PCB Inventory (RISC - QRPCB) (page 100)
St. Lawrence River Industrial Discharge Management System (page 103)
Western and Northern Region (C & P) Industrial Compliance (page 106)

Socioeconomic Activities (production, consumption, construction)

Manufacturing and Energy Production

Annual Survey of Manufactures (Part 1: Non-durable Goods /Part 2: Durable Goods) (page 204)
Arctic Industrial Activities (page 119)
Bioenergy Information and Technology Transfer System (BITTS) (page 30)
Capital and Repair Expenditures, Actual (page 205)
Corrugated Boxes and Wrappers (page 207)
Crude Petroleum and Natural Gas Production (page 208)

Database on the Panel on Energy Research and Development Expenditures (page 32)
Directory of Manufacturers: Environmental Products (page 198)
Electricity Supply/Disposition Quarterly (page 209)
Ferrous Foundry Database (page 63)
Fish Plant Registration Database (page 132)
GSC Petroleum Exploration and Resources Evaluation System (page 33)
Historical Manufacturing Centres Project (page 68)
Industrial Consumers of Energy (page 214)
International Energy Agency Energy Technology Data Exchange (page 238)
Inventory of Canadian Non-ferrous Foundries (page 74)
Municipal and Industrial Strategy for Abatement - Iron and Steel Industry Database (page 82)
Non-ferrous (Base Metal) Smelters Database (page 87)
Production and Shipments of Plastic Bottles (Blow-moulded) (page 217)
Production, Shipments and Stocks on Hand of Sawmills East of the Rockies (page 218)
Production, Shipments and Stocks on Hand of Sawmills in British Columbia (page 218)
Pulp and Paper Industry Data Management System (page 96)
Pulp and Paper Mill Profile System (page 96)
Shipments of Plastic Film and Bags Manufactured from Resin (page 221)
Thermal Generating Station Fuel Consumption (page 221)
Western and Northern Region (C & P) Industrial Compliance (page 106)
Wholesale Trade Survey (monthly) (page 222)

Transporting

Aircraft Movement Statistics (page 203)
Bird Strike Data (page 224)
Environmental Screening System (page 226)
For-hire (Commodity Origin-Destination) Trucking Survey (page 211)
Fuel Additives Database (page 65)
Lead Additives in Gasoline (LAG) (page 76)
Leaded Gasoline Data Management System (page 76)
Motor Carrier - Freight and Household Goods Movers Survey (page 215)
Operational Incident Reporting System (OIRS) (page 226)
Passenger Bus and Urban Transit Statistics (Annual) (page 217)
Potential Pollutants Monitoring System (page 227)
Road Motor Vehicle Survey (Fuel) (page 220)
Road Motor Vehicles (Registration) (page 220)
Vehicle Emission Tests (page 105)
Vehicle Fuel Economy and Emissions Systems (page 227)

Household Consumption

Additive Database System (ADS) (page 180)
Canadian Inventory of Historic Buildings (CIHB) (page 56)
Household Facilities and Equipment Survey (HFE) (page 213)
Households and the Environment Survey (page 213)
Housing Market Information System (page 20)

Generation of Wastes

Aircraft Noise Exposure Forecast (NEF) (page 20)
B.C. Discharge Inventory Database (page 51)
Bulletin pH (page 53)
Compendium of Fertilizer-Use Pesticides (page 11)
Crop Residue Survey (page 12)
Ferrous Foundry Database (page 63)
Impacts of Pesticides on Songbirds (page 71)
Information on Regulated Emissions of the Petroleum Refining Industry in Quebec (page 73)
Lead Additives in Gasoline (LAG) (page 76)
Levels of Pesticide Contaminants in Fertilizers (page 13)
Livestock Feeds Contaminants Database (page 14)
Long Range Transport of Atmospheric Pollutants - Organics (page 114)
National Air Pollution Surveillance Network (NAPS) (page 83)
National Analysis of Trends in Emergencies System (NATES) (page 84)
National Registry of Toxic Chemical Residues (NRTCR) (page 86)
Non-ferrous (Base Metal) Smelters Database (page 87)
Northwest Territories Toxic Spills Management System (page 190)
Pesticide Residues on Plants (page 240)
Regulatory Information on Pesticide Products (page 16)
Ocean Dumping Database System Pacific and Yukon Region (page 90)
Pollution Incident Report Records Collection (page 93)
Pulp and Paper Industry Data Management System (page 96)
Pulp and Paper Mill Profile System (page 96)
St. Lawrence River Industrial Discharge Management System (page 103)
Sulphur Content in Liquid Fuels (page 103)
Vehicle Emission Tests (page 105)

Management of Wastes

Acid Rain Impact Assessment Database (page 170)
Acid Rain National Early Warning System (ARNEWS) (page 170)
Air Pollutants Compendium (COMP) (page 47)

Canadian Coast Guard Pollution Incident Reporting System (page 224)
Canadian Council of Ministers of the Environment PCB Inventory (page 55)
Chemical Profiles Database - Schedule II Transportation of dangerous goods (CHEMPROF) (page 56)
Contaminants Database (Fish and Fish Products) (page 157)
Dangerous Goods Accident Information System (DGAIS) (page 225)
Domestic Substances List (DSL) (page 62)
Fuel Additives Database (page 65)
Heavy Metal Concentrations in Fertilizers and Fertilizer Materials (page 12)
Land Potential for Agriculture Database (page 13)
Leaded Gasoline Data Management System (page 76)
Local Government Financial Management Statistics - Capital Expenditures (page 214)
Local Government Gross Revenue and Expenditures (Actual Data) (page 215)
Mine Compliance Data (page 81)
Municipal and Industrial Strategy for Abatement - Iron and Steel Industry Database (page 82)
Municipal Waterworks and Wastewater System Data (MUNDAT) (page 83)
Northwest Territories Toxic Spills Management System (page 190)
Nuclear Data System (NUDAT) (page 89)
Ocean Dumping Permit System (ODUMP) (page 90)
Ozone Depleting Substances: Trade and Use (page 91)
Pesticide Registrant Survey (page 92)
Potential Pollutants Monitoring System (page 227)
Register of Underground Storage Tanks and Systems on Federal Property (RUST) (page 98)
Residues in Agri-foods Monitoring Program (page 16)
Restricted Information System for Chemicals Ontario Region PCB Inventory (page 99)
Restricted Information System for Chemicals Quebec Region PCB Inventory (RISC - QRPCB) (page 100)
Summary of Waste Sites in the Yukon and Northwest Territories (page 192)

Harvesting

Abalone Harvest Log (page 119)
Agriculture and Meteorology (AGMET) (page 10)
Agroecological Resource Areas (page 10)
Annual Census of Forestry (page 203)
Bay of Fundy Invertebrate Fishery (page 147)
British Columbia Herring Data (page 120)
British Columbia Prawn and Shrimp Commercial Sampling Database (page 121)
British Columbia Recreational Fishing Catch Statistics (page 121)
British Columbia Shellfish Research Data (page 122)
Canada Soil Information System (CANSIS) (page 11)
Census of Agriculture (page 205)

Census of Wildlife Pelt Production (page 206)
Compendium of Fertilizer-use Pesticides (page 11)
Crop Residue Survey (page 12)
DFO Central and Arctic Region Fishery Statistics (page 111)
Field Crop Reporting Series (page 210)
Fish Plant Production in Quebec (page 141)
Fish Plant Registration Database (page 132)
Fisheries Catch and Effort Statistics (page 132)
Fisheries Database on Persons, Boats and Permits for Quebec (page 141)
Fisheries Licencing Database (page 133)
Fisheries Production Statistics (page 133)
Forest Inventory 1986 (page 173)
Forest Management Statistics of Canada (page 173)
Forest Resource and Depletion Estimation System (page 174)
General Biological Data for the Pacific Coast (BISEL) (page 122)
Gulf of St. Lawrence Commercial Fish Samples (COMSAM) (page 157)
Gulf of St. Lawrence Commercial Fisheries Sampling Database (page 142)
Gulf of St. Lawrence Research Vessel Fisheries Surveys Database (page 142)
Gulf of St. Lawrence Shrimp Surveys Database (page 143)
Gulf Region Commercial Snow Crab Fishery (page 159)
Historical Pacific Salmon Catch Database (page 123)
In-season Pacific Salmon Catch Monitoring System (page 124)
Land Administration System (LAS) (page 186)
Levels of Pesticide Contaminants in Fertilizers (page 13)
Livestock Feeds Contaminants Database (page 14)
Lobster Fishing Effort Aerial Survey Data (page 159)
National Farm Survey (NFS) (page 216)
National Forestry Database Program (page 175)
National Harvest Survey - Game Birds (page 85)
Newfoundland Fisheries Inspection Services Branch Database (page 165)
Newfoundland Foreign Fishing Vessel Observer Program Database (page 165)
Newfoundland Freshwater and Anadromous Fish Database (FAFP) (page 166)
Newfoundland Groundfish Database (GFISH) (page 166)
Newfoundland Invertebrate Data (INVERT) (page 167)
Newfoundland Pelagic Fish Database (PELAG) (page 167)
Pacific Commercial Fish Catch Statistics System (CCSS) (page 126)
Pacific Fisheries Licencing Database (page 126)
Pacific Groundfish Catch and Catch Effort Database (page 127)
Pacific Hail Catch (Salmon) Database (page 127)
Pacific Hake Observer Database (page 128)
Pacific Native Food Fishery (page 128)
Prairie-Northwest Territories Forestry Data Bank and Archives (page 176)
Prairie-Northwest Territories Forestry Industry Database (page 176)

Production, Shipments and Stocks on Hand of Sawmills East of the Rockies (*page 218*)

Production, Shipments and Stocks on Hand of Sawmills in British Columbia (*page 218*)

PSP and Domoic Acid in Shellfish (*page 161*)

Quebec Fisheries Catch, Effort, and Quota Database (*page 144*)

Regulatory Information on Pesticide Products (*page 16*)

Salmonid Enhancement Planning Information Control Database (EPIC) (*page 130*)

Scotia-Fundy Commercial Herring Database (*page 151*)

Scotia-Fundy Groundfish Sampling Database (*page 152*)

Scotia-Fundy Groundfish Surveys (*page 152*)

Scotia-Fundy Observer Program (MAROD) Database (*page 153*)

Sea Sampling for the Lobster Gulf Fishery (*page 161*)

Silviculture Statistics (*page 177*)

Survey of Atlantic and Pacific Fishermen Database (*page 136*)

Survey of Pacific Fisheries Costs and Earnings (*page 136*)

Survey of Sport Fishing Database (*page 137*)

Sustainable Agriculture Task Force Database (*page 242*)

Vegetation Management Activities for Forestry (*page 177*)

Yukon Forest Inventory (*page 193*)

Yukon Timber Production (*page 196*)

Extraction of Resources (including water)

Arctic Industrial Activities (*page 119*)

Coal Mines (*page 207*)

Coal Reserves of Canada (*page 32*)

Crude Petroleum and Natural Gas Production (*page 208*)

D-REF (Data Reference) (*page 235*)

Index of Mineral Processing Research Projects (RESPROC) (*page 236*)

Index of Mining Technology Research Projects (RESMIN) (*page 236*)

Industrial Water Use Surveys (INSURVS) (*page 72*)

International Energy Agency - Coal (IEA Coal) (*page 237*)

International Energy Agency Coal Research Projects Database (*page 237*)

Land Administration System (LAS) (*page 186*)

Mineral Processing Abstracts (MINPROC) (*page 238*)

Mining and Mineral Information for the Northwest Territories (*page 187*)

Mining Technology Abstracts (MINTEC) (*page 239*)

Municipal Water Use Survey (*page 82*)

Municipal Waterworks and Wastewater System Data (MUNDAT) (*page 83*)

Northern Granular Resource Database (*page 188*)

Northwest Territories Mining and Exploration Database (*page 189*)

Ocean Mining Citation Retrieval System (*page 239*)

Physical Environmental Observation and Measurement Programs for Offshore Drilling (*page 200*)

Prototype Northern Mining Records System (*page 191*)

Yukon Minfile (*page 194*)

Restructuring of Land and Water Systems

Canada Geographic Information System (CGIS) (*page 54*)

Database on Dredging and Sediment Quality in the St. Lawrence River (*page 62*)

Environmental and Feasibility Studies for Offshore Drilling (*page 200*)

Forest Insect and Disease Information System (FIDS) (*page 172*)

Housing Market Information System (HMIS) (*page 20*)

Maritime Provinces Strategic Land Use Database (*page 78*)

Maritime Wetlands Inventory (*page 78*)

Northern Dredging Database (*page 88*)

Northern Land Use (*page 88*)

Northwest Territories Land Information System (L.I.S.) (*page 188*)

Northwest Territories Land Use Regional Planning Databases (*page 189*)

Physical Environmental Observation and Measurement Programs for Offshore Drilling (*page 200*)

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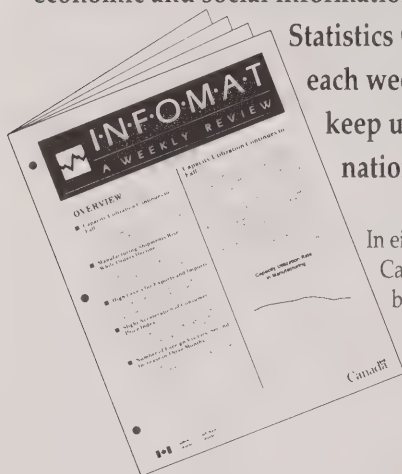
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